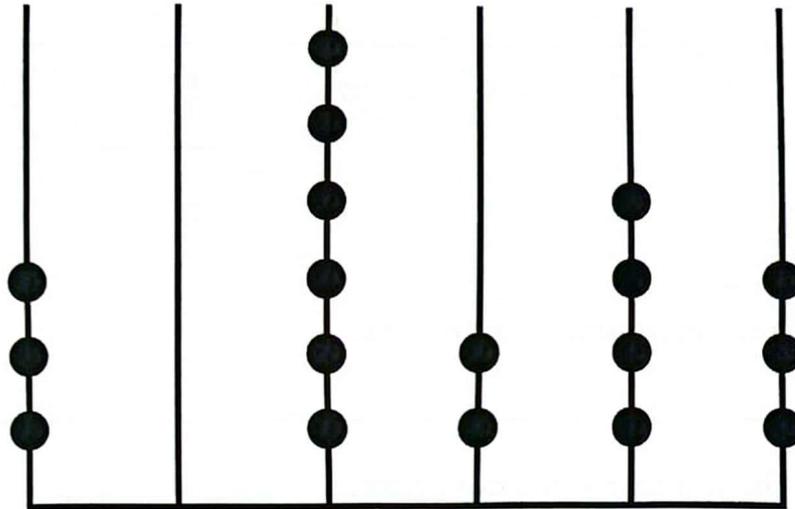


1. Write the numeral represented below.



Answer \_\_\_\_\_

2. Circle the largest number below.

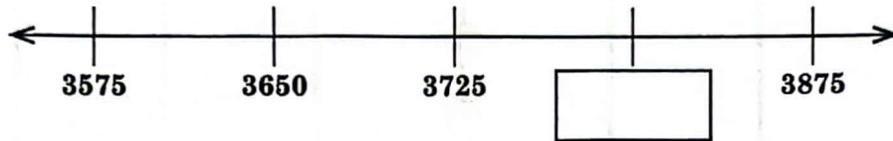
101 011

101 110

101 010

101 101

3. A number line is shown below.



Insert the missing number in the box.

4. Complete the number sentence below.

$$20 \times \boxed{\phantom{000}} = 20 \times 3 + 20 \times 4$$

Calculate  $25 \times 48$ .

Answer \_\_\_\_\_

6. Ziyad has a total of \$15.10 in bills and coins. The value of one of the coins is **not** shown.

\$10

\$1

\$1

\$1

50 ¢

25 ¢

\$1

10 ¢

What is the value of the coin that is **not** shown?

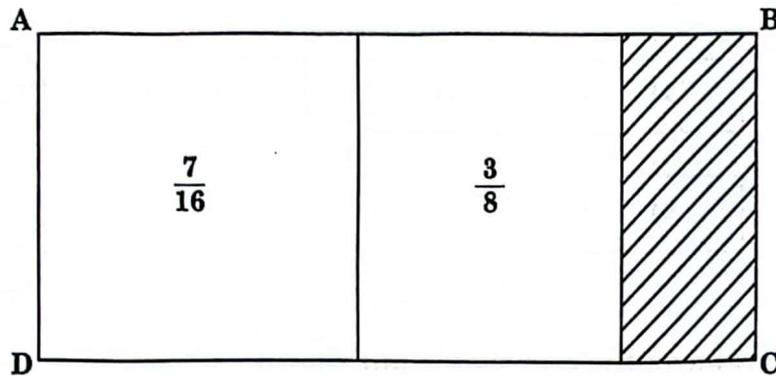
Answer \_\_\_\_\_ ¢

7. What number must be placed in the box to make the number statement true?

$$\frac{27}{45} = \frac{3}{\square}$$

Answer \_\_\_\_\_

8. Rectangle ABCD below represents a whole.



What fraction of the rectangle is shaded?

Answer \_\_\_\_\_

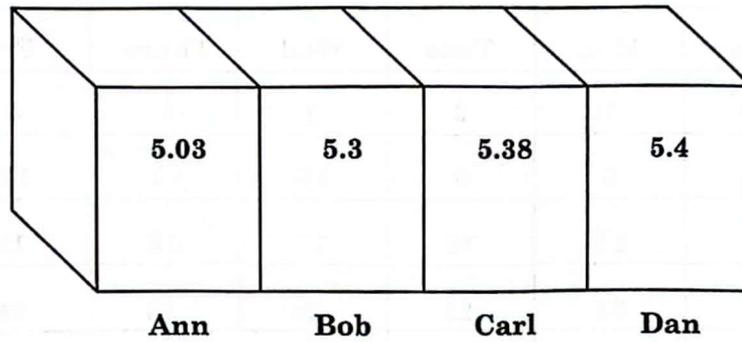
9. Jose bought 340 seedlings. He planted 45% of the seedlings.

How many seedlings did Jose plant?

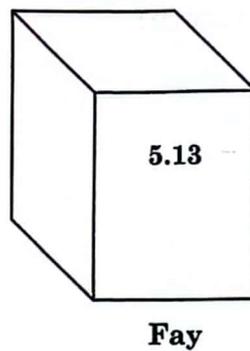
Answer \_\_\_\_\_ seedlings

10. Some students are ordering numbered blocks.

The diagram below shows how 4 students ordered their blocks.



Fay chooses the block shown below.



Between which two students' blocks should Fay place her block?

Answer \_\_\_\_\_ and \_\_\_\_\_

11. The calendar below represents the month of June.

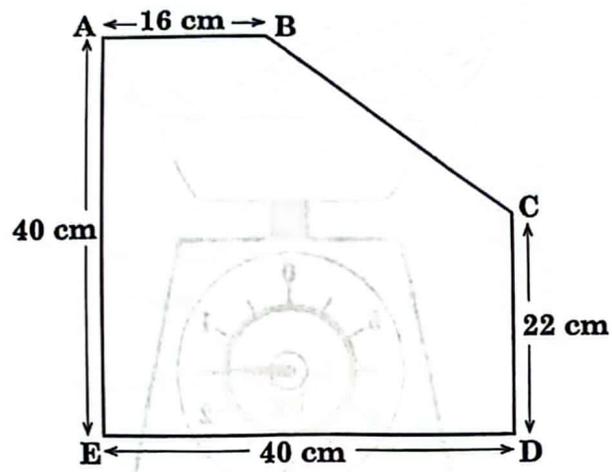
JUNE						
Sun	Mon	Tues	Wed	Thurs	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

Jade visited the dentist on 8th June and has to return exactly 2 weeks later.

On what date should Jade return?

Answer \_\_\_\_\_ June

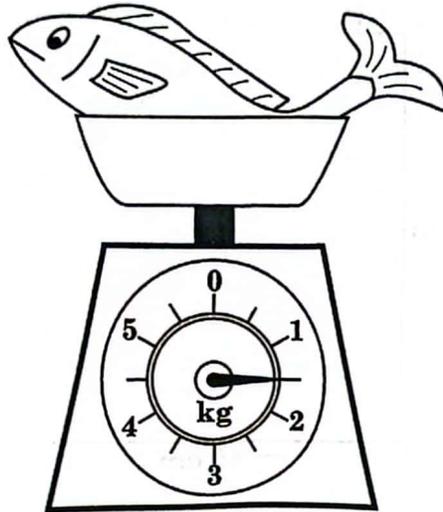
12. The perimeter of the pentagon, ABCDE, shown below is 148 cm.



What is the length of BC?

Answer \_\_\_\_\_ cm

13. The diagram below shows a fish on a scale.



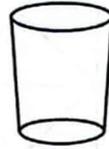
State the mass of the fish.

Answer \_\_\_\_\_ kg

14. Paul pours 3 litres of water into a number of 250 ml cups.



3 litres

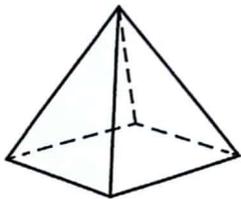


250 ml

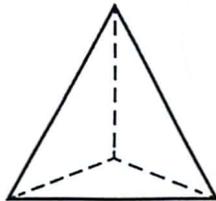
How many cups can be filled completely?

Answer \_\_\_\_\_ cups

15. Solids A, B, C and D are shown below.



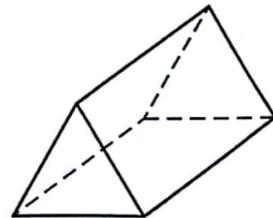
A



B



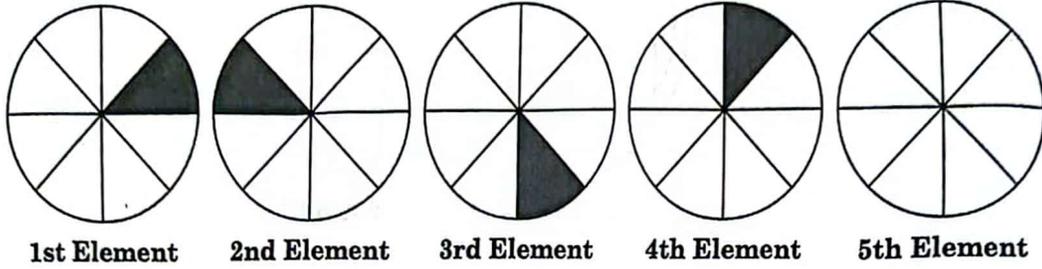
C



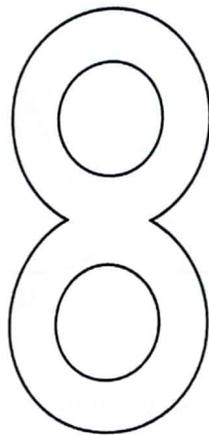
D

Which solid has a uniform cross-section in the shape of a triangle?

16. The first 4 elements of a pattern are shown below. Complete the 5th element.



17. Draw all the lines of symmetry on the figure below.



18. Students' scores on a quiz are shown below.

4, 3, 2, 5, 1, 0, 3, 2, 3, 1

What is the modal score?

Answer \_\_\_\_\_

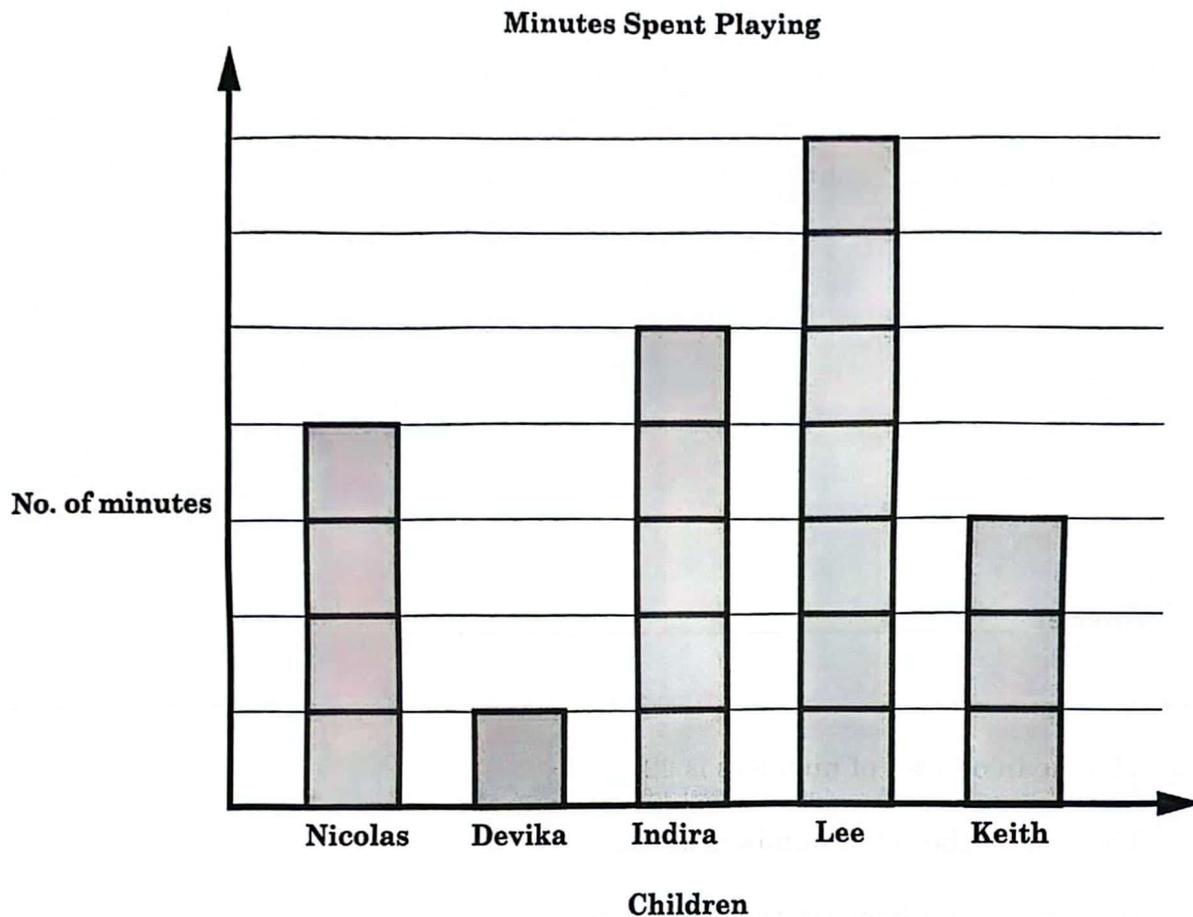
19. The mean of a set of numbers is 22.

The sum of the set of numbers is 132.

How many numbers are there in the set?

Answer \_\_\_\_\_ numbers

20. The block graph below shows the number of minutes 5 children spent playing.



The children spent a total of 100 minutes playing.

How many minutes did Keith spend playing?

Answer \_\_\_\_\_ minutes

## SECTION 2

21. The price of a smartphone is \$1 200 plus VAT of  $12\frac{1}{2}\%$ .

What is the final price of the smartphone?

Answer \$ \_\_\_\_\_

(2 marks)

22. A list of ingredients for 10 cookies is shown below.

Ingredients

100 g butter

100 g sugar

30 g chocolate

180 g flour

25 g cereal

Kamini wants to make 12 cookies. How much flour would she need?

Answer \_\_\_\_\_ g

(2 marks)

23. Complete the shopping bill shown below.

**Shopping Bill**

Item	Unit Cost	Quantity	Total
Cupcake	\$5.00	2	\$10.00
Currant roll	\$9.00	3	\$27.00
Doughnut	\$ _____	6	\$ _____
<b>Total</b>			<b>\$79.00</b>

**(2 marks)**

24. The table below shows the cost of printing postcards at a printery.

No. of Postcards	Cost
First 200	\$160.00
Every additional set of 5	\$3.00

Gale printed 700 postcards. How much did she pay?

Answer \$ \_\_\_\_\_

25. Nick has 4 boxes of balloons. Each box contains 108 balloons. Nick packs the balloons into party bags. He packs 14 balloons into each party bag.

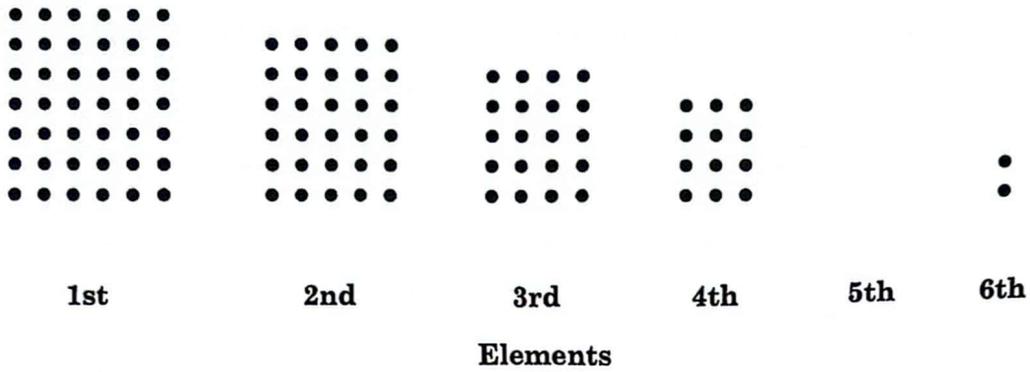
How many **more** balloons would he need to fill the last party bag?



Answer \_\_\_\_\_ balloons (3 marks)

Handwritten work area with horizontal lines and a small scribble on the left side.

26. A number pattern is shown below. The 5th element is not shown.



Draw the 5th element and describe the pattern.

Answer \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(3 marks)

27. The cost of 1 table and 4 chairs is \$280.00.

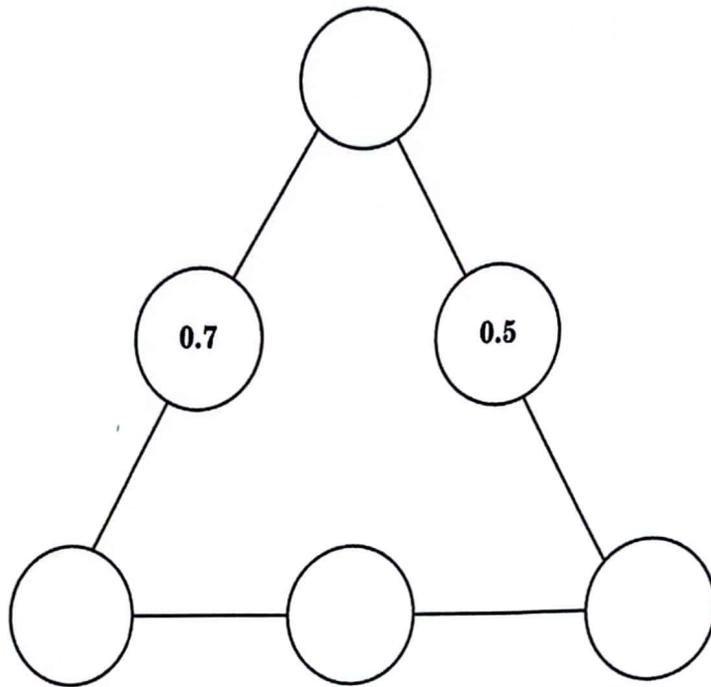
The cost of 1 table is 3 times the cost of 1 chair.

Calculate the cost of 1 table.

Answer \$ \_\_\_\_\_

(3 ma

28. The diagram shows a triangle. On each side of the triangle there are 3 circles. The sum of the numbers on each side is 1.2.



Use the decimals below to complete the triangle.

0.2

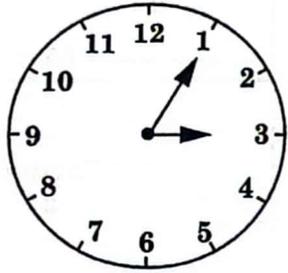
0.3

0.4

0.6

**(3 marks)**

29. The clock below shows the time Aliya arrived at the mall. Her journey from home to the mall took 25 minutes.

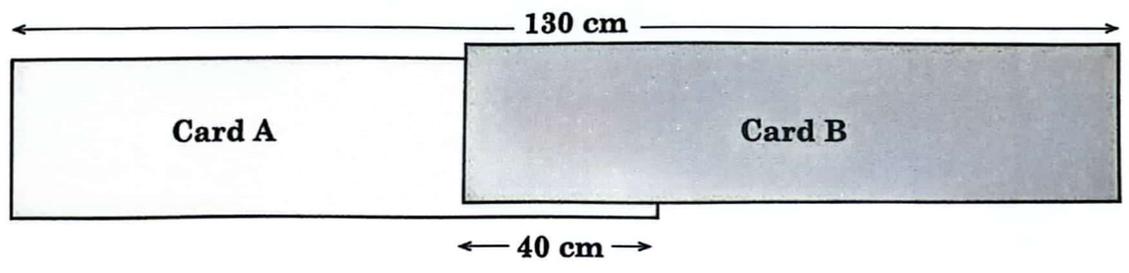


At what time did Aliya leave home?

Answer \_\_\_\_\_

(2 marks)

30. Two identical pieces of cardboard were stuck together as shown below. The length of the overlapping portion is 40 cm.

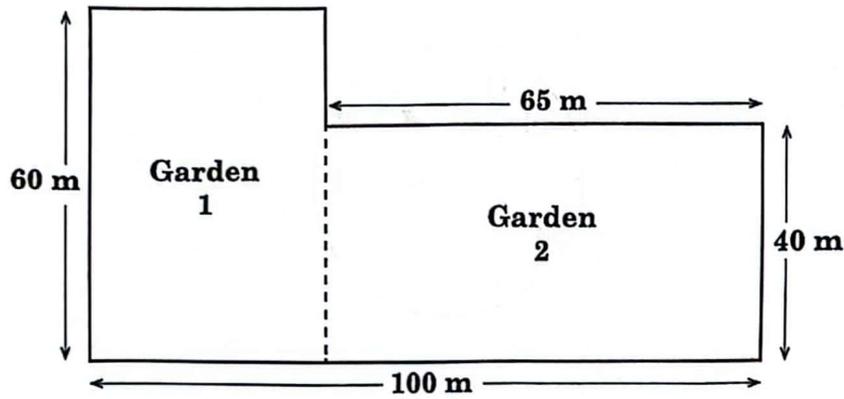


What was the length of **each** piece of cardboard before they were stuck together?

Answer \_\_\_\_\_ cm

(2 marks)

31. Mr. Dawson's land is divided into 2 rectangular gardens as shown below.



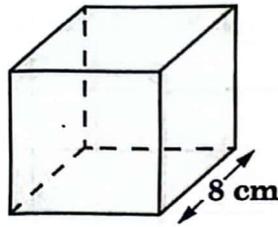
Mr. Dawson wants to build a fence around his entire land and between Garden 1 and Garden 2.

How many metres of fence will he need?

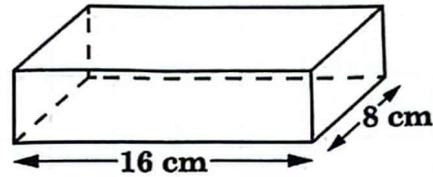
Answer \_\_\_\_\_ m

(3 marks)

32. Two containers, A and B, are shown below. Container A is a cube and Container B is a cuboid.



A



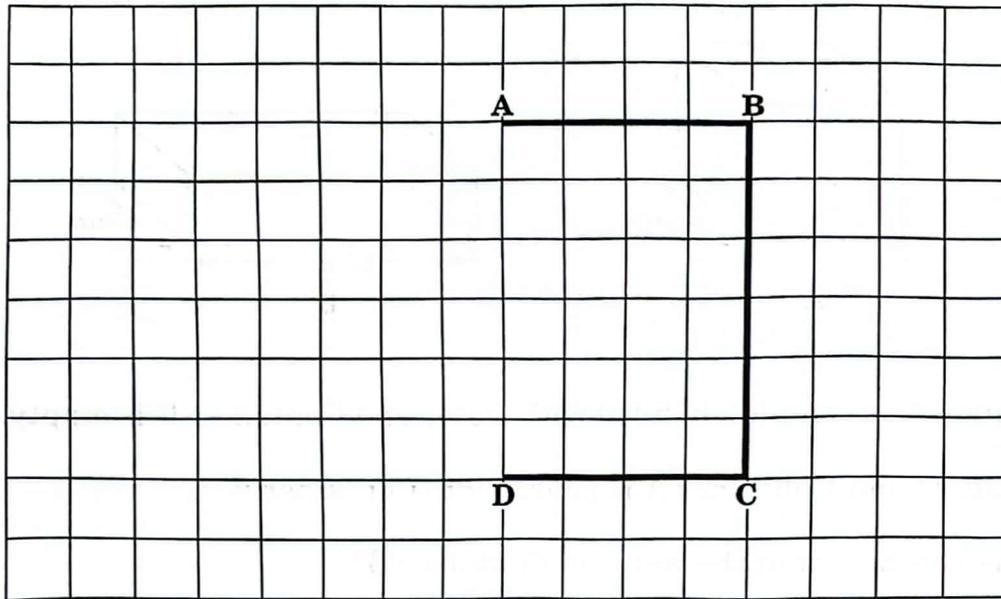
B

Container A is completely filled with water and Container B is empty.

The water from Container A is poured into Container B.

What is the height of the water in Container B?

33. An incomplete five-sided shape, ABCDE, is shown on the grid below.



Three sides of the shape are shown. The completed shape must have 3 right angles.

Complete the shape.

(2 marks)

34. State one similarity and one difference between a square and a rhombus.

Similarity	Difference	
		<p>Area</p>
		<p>Perimeter</p>
		<p>Diagonals</p>

(2 marks)

35. The pictograph below represents storybooks owned by 3 students.

Storybooks Owned by Three Students

Amani	
Zarah	
Ibby	

Amani owns 15 more books than Zarah.

How many books does Ibby own?

Answer \_\_\_\_\_ books

(2 marks)

36. Asha's mean score on 2 tests was 54. Her score on the first test was 12 less than her score on the second test.

What was her score on the first test?

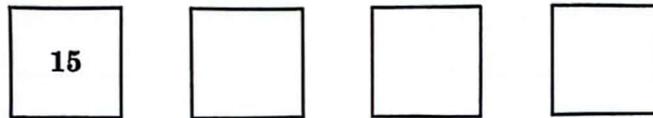


Answer \_\_\_\_\_

**(3 marks)**

### SECTION 3

37. Four number cards are shown below. Three numbers are missing.



Two of the cards have the same number.

Only one number is 6 less than another.

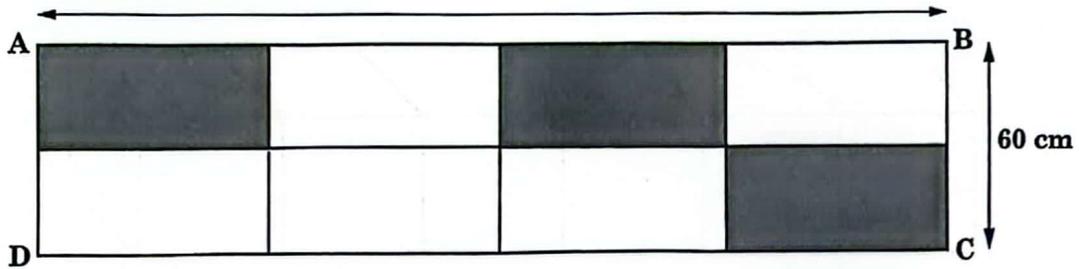
All missing numbers are **greater** than 15.

The total of the four numbers is 70.

Determine the missing numbers.

Answer \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ (4 marks)

38. The rectangle, ABCD, shown below is divided into smaller identical rectangles. The area of the shaded portion is  $3\,600\text{ cm}^2$ .

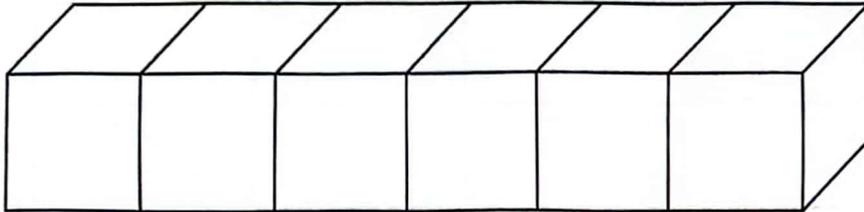


Calculate the length of AB, in metres.

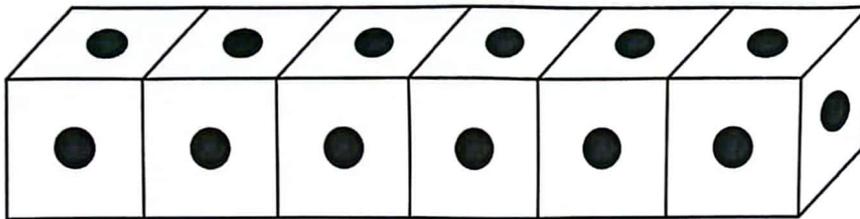
Answer \_\_\_\_\_ m

(4 marks)

39. Fidel had 6 cubes. He placed them side by side and stuck them together as shown below.



Fidel placed 1 black dot on each face that is not stuck together.



- (a) What was the total number of dots placed on the 6 cubes?

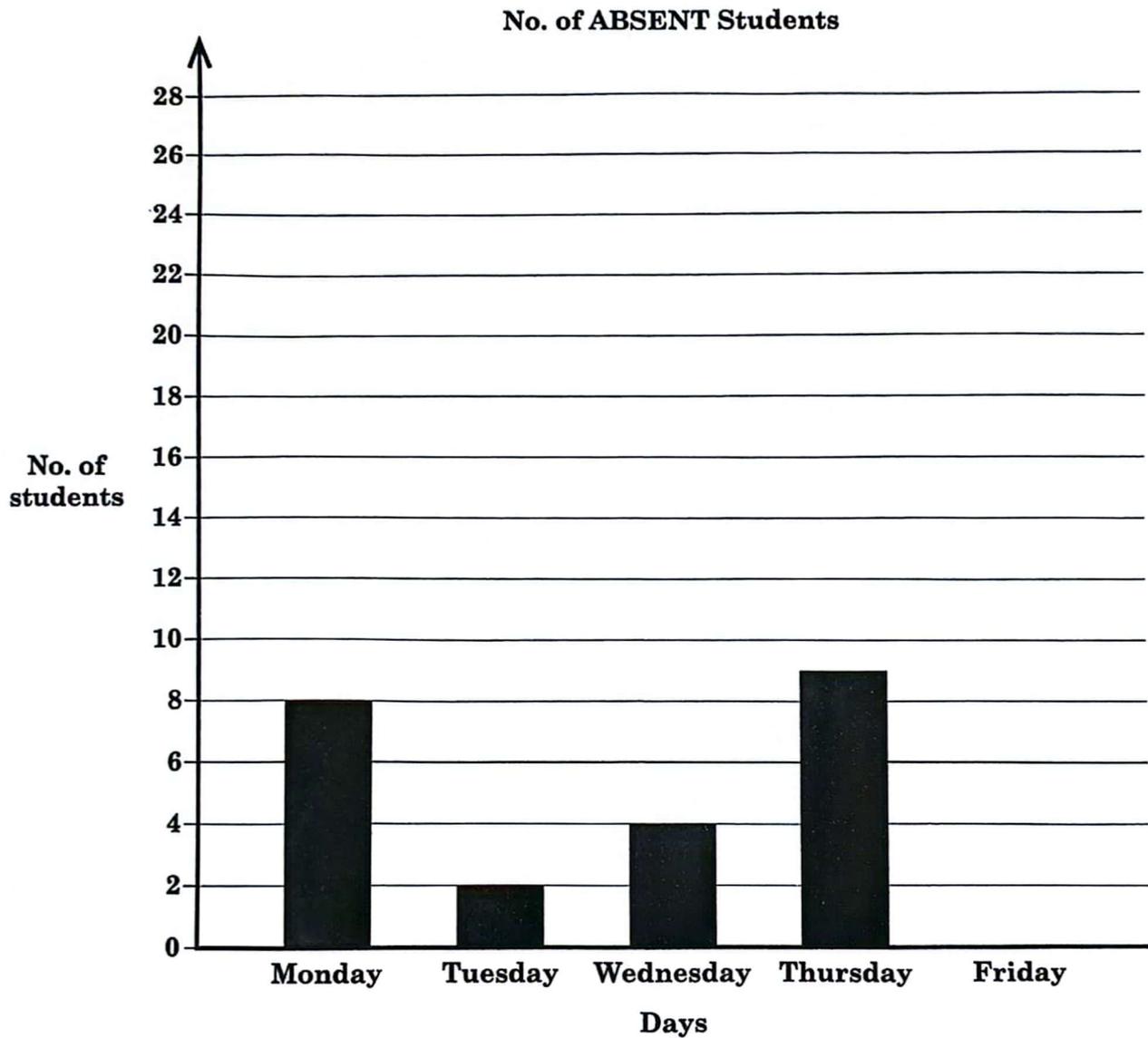
Answer \_\_\_\_\_ dots

- (b) What is the **greatest** number of cubes that can be stuck together so that the total number of dots is **less than** 45?

Answer \_\_\_\_\_ cubes

(4 marks)

40. There are 28 students in a class. The incomplete bar graph below shows the number of students who were **absent** for 5 days.



The mean number of students **present** for 5 days was 22. Complete the bar graph to show the number of students who were **absent** on Friday.

(4 marks)

1. Write the numeral for two hundred and thirty thousand, five hundred and sixty-three.

Answer \_\_\_\_\_

2. Write the value of the underlined digit in the numeral below.

95 367

Answer \_\_\_\_\_

3. A common factor of 15 and 18 is 1. What other factor is common to 15 and 18?

Answer \_\_\_\_\_

4. Write ONE of the following symbols in the box below to make the number sentence correct.

> = <

8 693

8 639

480

5.  $9 \overline{)927}$

Answer \_\_\_\_\_

A015

6.  $7 - \frac{2}{3} =$

Answer \_\_\_\_\_

7. Write 0.40 as a fraction in its lowest terms.

Answer \_\_\_\_\_

027

8.  $3.12 \times 4 =$

Answer \_\_\_\_\_

A005

9. 15% of 300 =

Answer \_\_\_\_\_



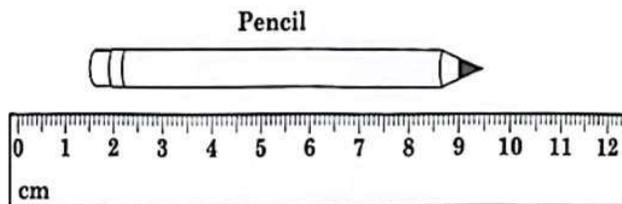
10. An incomplete pattern is shown below.

36, 28, 21, 15, \_\_\_\_\_, 6

What is the missing element in the pattern?

Answer \_\_\_\_\_

11. What is the length of the pencil shown below?



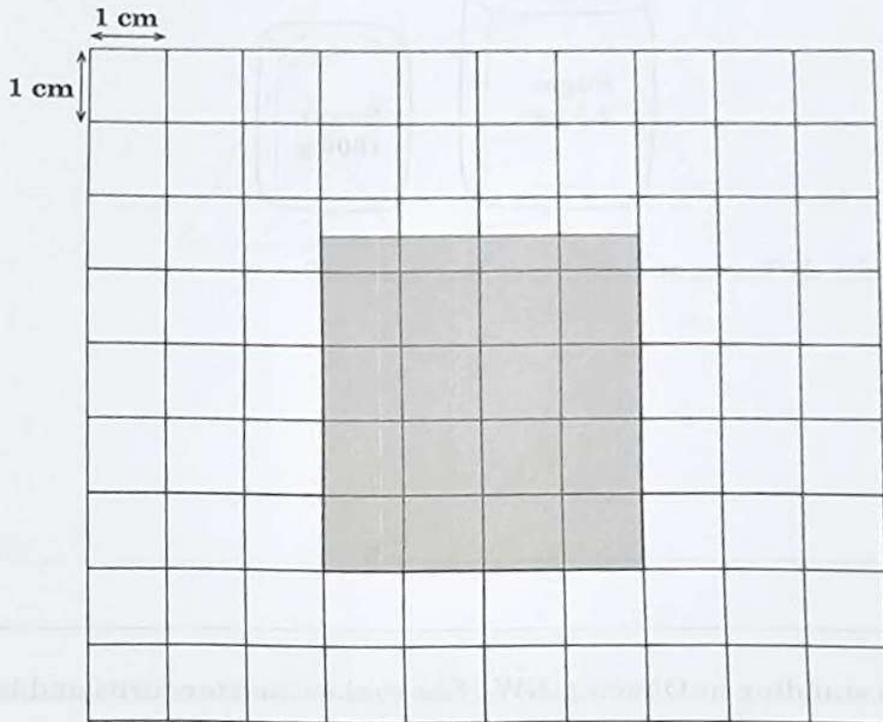
Answer \_\_\_\_\_ cm

12. Aidan left home at 6:45 a.m. and arrived at school at 7:25 a.m.

How long was his journey?

Answer \_\_\_\_\_ minutes

13. A shaded shape is shown on the 1 cm grid below.



What is the area of the shape?

Answer \_\_\_\_\_  $\text{cm}^2$

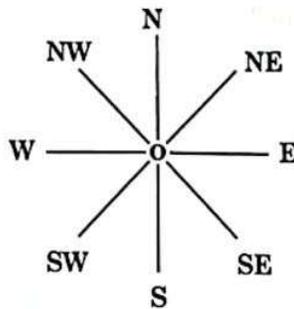
14. Two packs of sugar are shown below.



What is the **difference** between their masses?

Answer \_\_\_\_\_ g

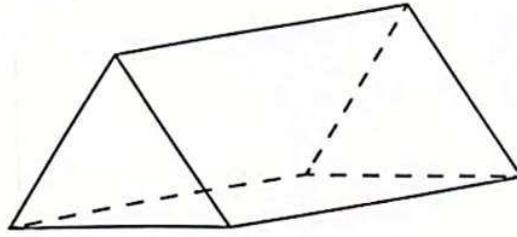
15. Gillian is standing at O facing NW. She makes quarter turns and is now facing SE.



What is the **least** number of quarter turns made by Gillian?

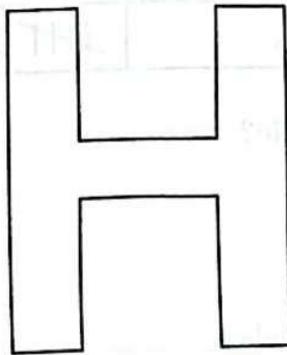
Answer \_\_\_\_\_ quarter turns

16. How many vertices are there in the solid shown below?



Answer \_\_\_\_\_ vertices

17. Draw ALL the lines of symmetry on the shape below.



18. The mean of three numbers is 12. Two of the numbers are 10 and 11. What is the **third** number?

Answer \_\_\_\_\_

19. The tally chart below shows the types of gifts students received.

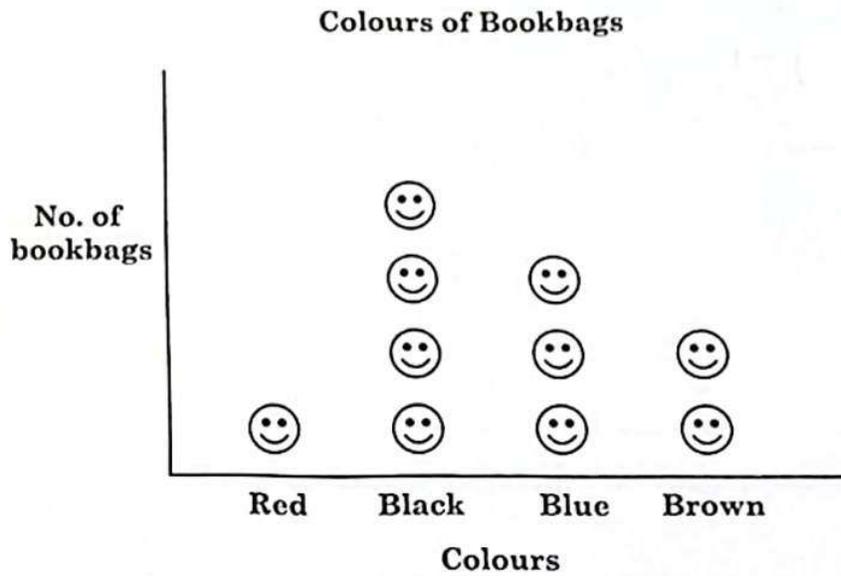
**Gifts Students Received**

Gift	Tally
Bicycles	
Books	
Cellphones	
Tablets	

Which gift represents the mode?

Answer \_\_\_\_\_

20. The pictograph below shows the colours of students' bookbags.



If 32 of the bookbags are black, how many are blue?

Answer \_\_\_\_\_ bookbags

## SECTION 2

21.  $\frac{3}{4} \times 32 = \square^2 - 1$

Answer  $\square =$  \_\_\_\_\_

(2 marks)

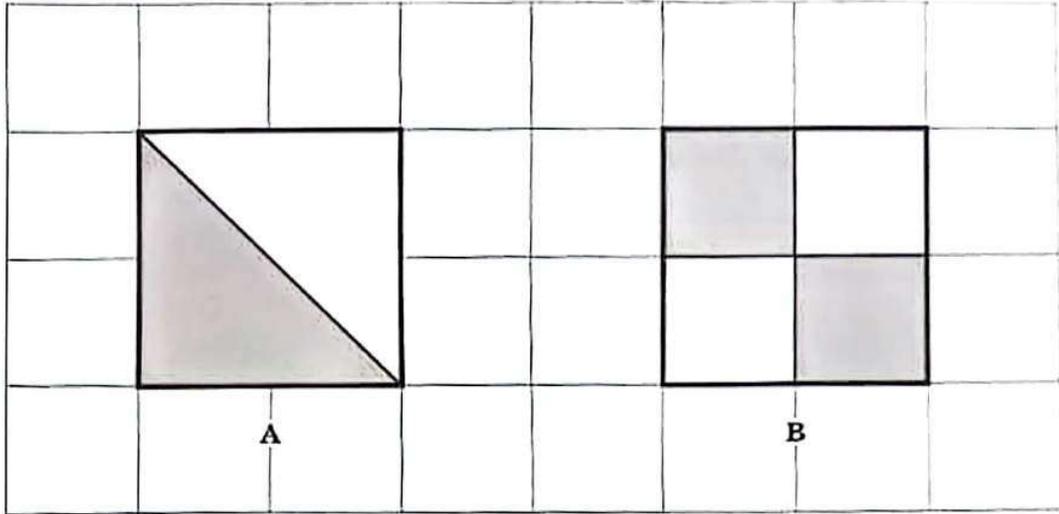
22. A packet of sweets was shared among 4 students. Each student received 15 sweets and there were 5 sweets remaining.

What was the total number of sweets in the packet?

Answer \_\_\_\_\_ sweets

(2 marks)

23. Two fraction models, A and B, are shown on the grid below.



Explain why the fraction models represent equivalent fractions.

Answer \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(2 marks)

24. Two fruit stalls sell mangoes at the prices shown below.

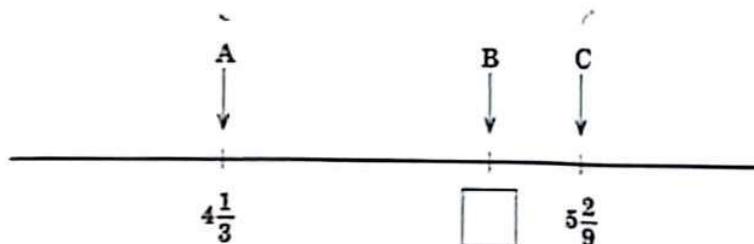
Stall A	Stall B
\$9.00 for 6 mangoes	\$5.00 for 4 mangoes

What is the **cheaper** price of 36 mangoes between Stall A and Stall B?

Answer \$ \_\_\_\_\_

(2 marks)

25. The number line below shows the values of A and C.



The length AC is 4 times the length BC. What is the value of B?

Answer \_\_\_\_\_

(3 marks)

26. An arch was made using 280 balloons. For every 4 red balloons, 3 blue and 7 green balloons were used.

How many blue balloons were used to make the arch?

Answer \_\_\_\_\_ blue balloons

(3 marks)

27. Kai bought sets of jewelry containing rings and bracelets. Each set cost \$25 and contained 3 more rings than bracelets. Kai spent a total of \$300 and received 24 bracelets.

How many rings were in each set?

Answer \_\_\_\_\_ rings

(3 marks)

28. David has \$150.00 to buy pencils and rulers.

Pencils \$1.84 each
------------------------

Rulers \$8.13 each
-----------------------

Explain how estimation can be used to determine whether or not David has enough money for 15 pencils and 15 rulers.

Answer \_\_\_\_\_

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(3 marks)

29. A piece of wire is bent to form a rectangle of width 8 cm. The length of the rectangle is 6 cm longer than the width.

What is the length of the wire?

Answer \_\_\_\_\_ cm

(2 marks)

30. Phillip plays football every 3 days and cricket every 4 days. He played football and cricket on 5th February.

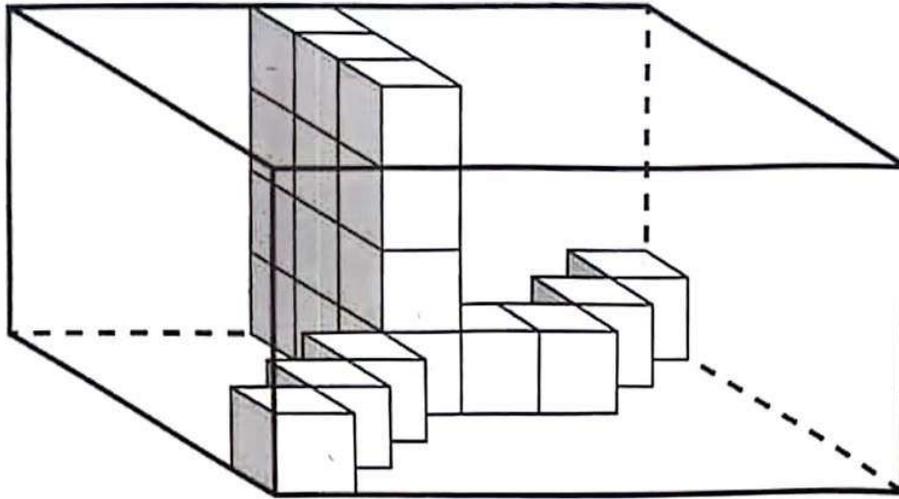
FEBRUARY						
Sun	Mon	Tue	Wed	Thurs	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13				

What will be the next date on which Phillip will play both football and cricket?

Answer \_\_\_\_\_ February

(2 marks)

31. A box is packed with identical cubes, as shown below.



How many **more** of these cubes are needed to fill the box completely?

Answer \_\_\_\_\_ cubes

**(3 marks)**

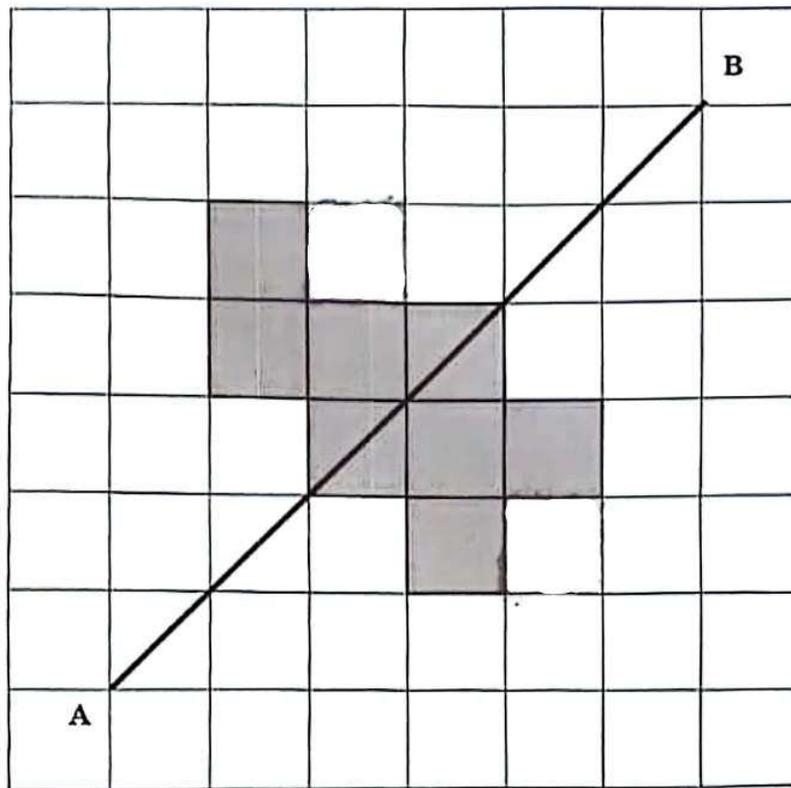
32. Mervyn started to tile a room at 8:40 a.m. He took 4 minutes to lay each tile. After he laid each set of 30 tiles, he took a 45-minute break. Mervyn laid a total of 90 tiles.

At what time did he finish laying all the tiles?

Answer \_\_\_\_\_ p.m.

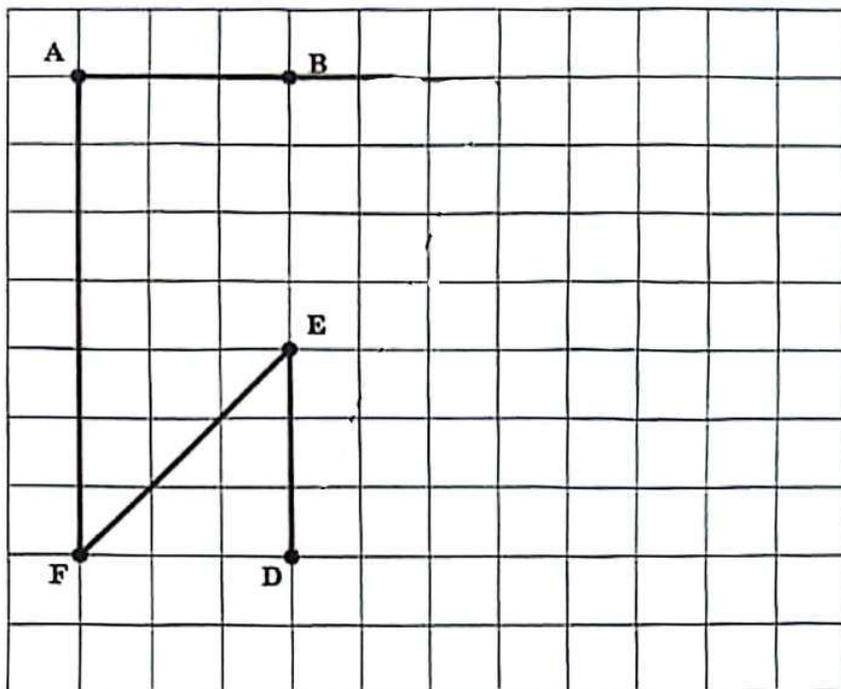
**(3 marks)**

3. In the diagram below, AB is a line of symmetry. Shade 2 squares to complete the symmetrical shape.



(2 marks)

34. An incomplete hexagon ABCDEF, is shown on the grid below. Insert the point C on the grid such that the hexagon has two right angles, and draw lines to complete the hexagon.



(2 marks)

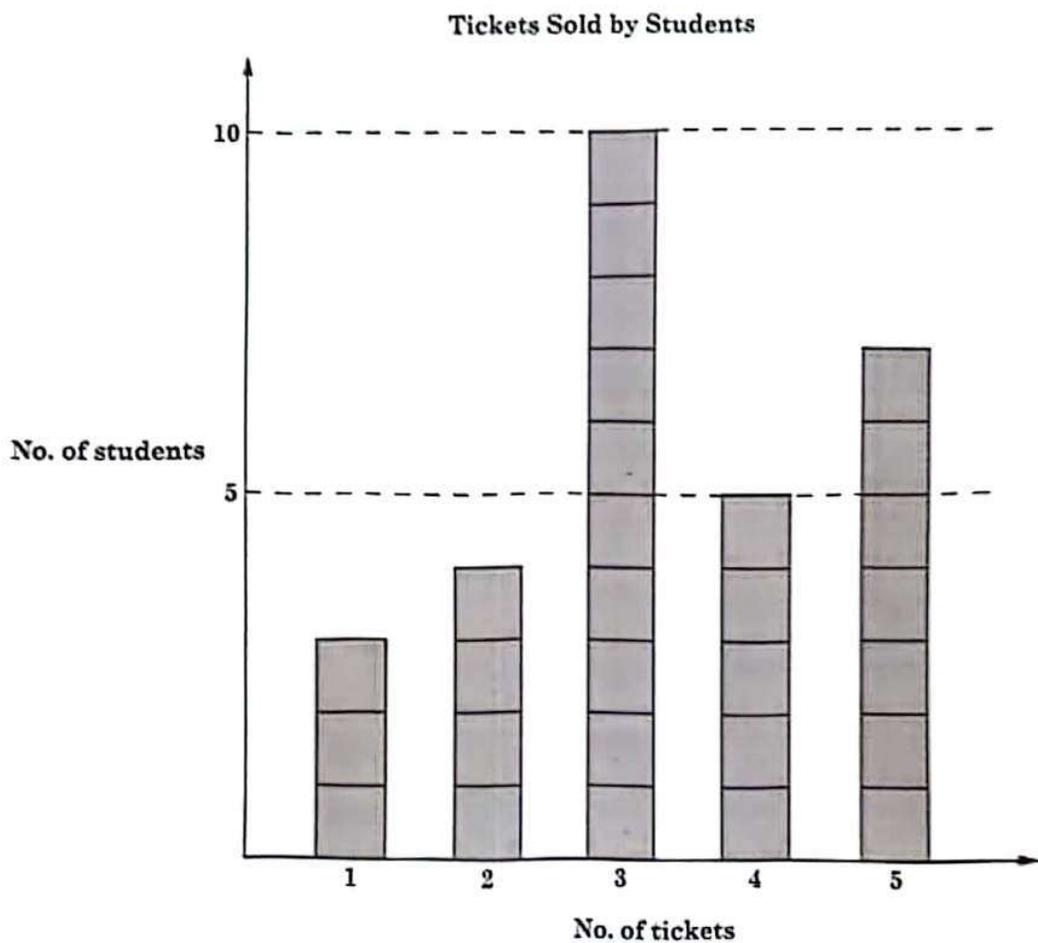
35. Olivia scored 86, 90 and 70 on three tests. She can earn a Grade A if her mean score is at least 80.

What is the lowest score she can obtain on the fourth test to earn a Grade A?

Answer \_\_\_\_\_

(2 marks)

36. The block graph below shows the number of tickets sold by students at a school.



How many students sold at least 3 tickets?

Answer \_\_\_\_\_ students

(3 marks)

### SECTION 3

37. The cost of 1 bag, 1 book and 1 pen is \$45. Alex bought 1 bag, 1 book and 2 pens and paid a total of \$51. The cost of 1 bag is twice the cost of 1 book.

What is the cost of 1 bag?

Answer \$ \_\_\_\_\_

(4 marks)

38. One bottle of liquid soap has the same capacity as 6 bottles of hand sanitizer.  
Four bottles of shampoo have the same capacity as 12 bottles of hand sanitizer.



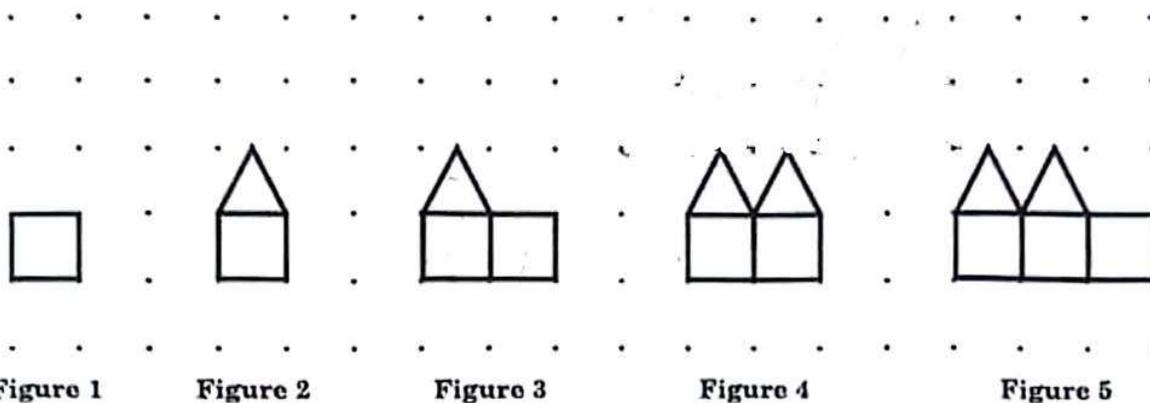
The capacity of 1 bottle of liquid soap is 1.5 litres.

What is the capacity of 1 bottle of shampoo, in millilitres?

Answer \_\_\_\_\_ ml

(4 marks)

39. Lollipop sticks are used to form a geometrical pattern, as shown below.



(a) Complete the table below by writing the number of lollipop sticks that will form Figure 4 and Figure 9.

Figure	1	2	3	4	5	6	7	8	9	10
No. of lollipop sticks	4	6	9	-	-				-	26

(b) Describe the pattern rule.

Answer \_ \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

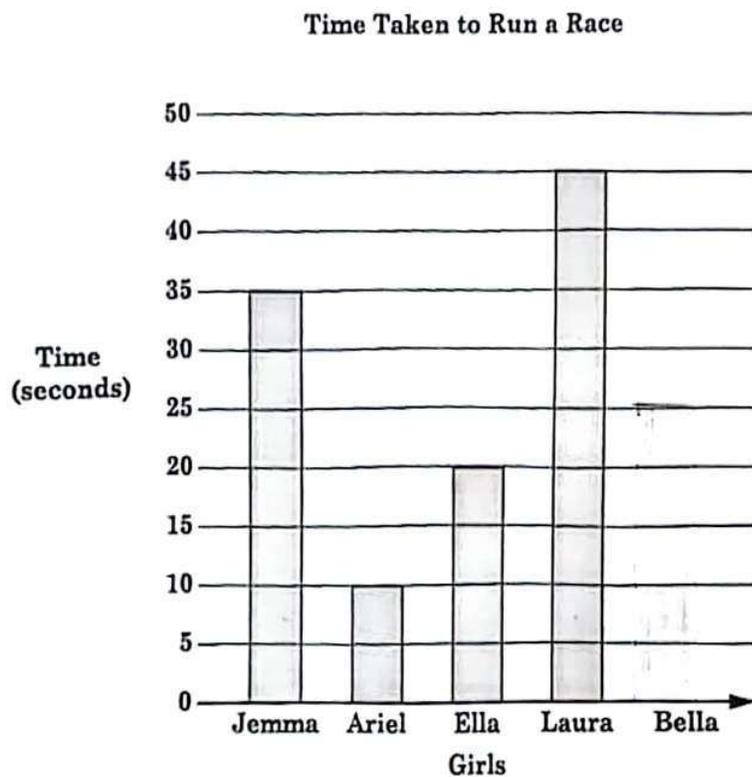
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(4 marks)

10. The incomplete bar graph below shows the time, in seconds, taken by 5 girls to run a race. The average time taken by the 5 girls to run the race was 25 seconds.



- (a) Calculate the time taken by Bella to run the race.

Answer \_\_\_\_\_ seconds

- (b) What was the time taken by the fastest runner?

Answer \_\_\_\_\_ seconds

(4 marks)



ANSWER BOOKLET

ANSWER BOOKLET

FILL IN ALL THE INFORMATION REQUESTED CLEARLY AND LEGIBLY.

TEST CODE 

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TEST CODE 

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SUBJECT MATHEMATICS 2023

SUBJECT MATHEMATICS 2023

Please place your label here.

Please place your label here.

READ THE FOLLOWING  
DIRECTIONS CAREFULLY.

1. This test is divided into **THREE** sections.
2. Make sure you read the instructions before you start to work on any section.
3. Write all your answers in this test booklet.
4. **DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.**

WRITE THE NAME OF YOUR SCHOOL BELOW.

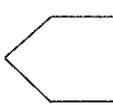
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WRITE YOUR FULL NAME BELOW.

\_\_\_\_\_

DATE OF BIRTH

<i>Day</i>	<i>Month</i>	<i>Year</i>

SEX  MALE   
 FEMALE

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0013



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**Instructions for the Mathematics Test**

You are NOT allowed to use **calculators**.

This test has **THREE** sections with a total of 40 questions.

**SECTION 1** has 20 questions (Nos. 1 to 20).

**SECTION 2** has 16 questions (Nos. 21 to 36).

**SECTION 3** has 4 questions (Nos. 37 to 40).

You have **75 minutes** for this test.

Answer **ALL** questions.

Read **EACH** question **CAREFULLY** before answering it.

Show **ALL** working in the spaces provided.

Marks will be given for correct steps shown.

Work carefully but do **NOT** spend too much time on any one question.

**DO NOT BEGIN UNTIL YOU ARE TOLD TO DO SO.**



1. Write the numeral 91 005 in words.

Answer \_\_\_\_\_  
\_\_\_\_\_

2. Arrange the numbers below in **descending** order.

3162      3612      3216      3126

Answer \_\_\_\_\_

3. Write  $2\frac{3}{8}$  as an improper fraction.

Answer \_\_\_\_\_



4. Divide 628 by 12.

Answer \_\_\_\_\_

5.  $8^2 + 6^2 =$

Answer \_\_\_\_\_

6. Round 15 296 to the nearest thousand.

Answer \_\_\_\_\_

7. Max ate 5 cherries which were  $\frac{1}{9}$  of the total number of cherries he picked.  
How many cherries did Max pick?

Answer \_\_\_\_\_ cherries

8. Write the **total** value of the bills and the coin shown below.



Answer \$ \_\_\_\_\_

9. Calculate 15% of 120.

Answer \_\_\_\_\_

10. Write the digits     in the squares below to create an addition problem with the **largest** sum.

+		+	

DO NOT WRITE HERE	K (9)		A (1)		R (0)		TOTAL (10)
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11. A part of a calendar for the month of April is shown below.

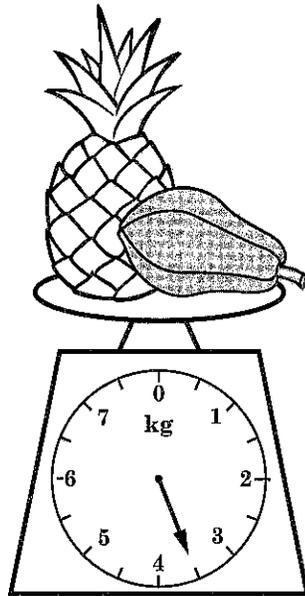
April

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25				

On what day of the week is the 2nd of April?

Answer \_\_\_\_\_

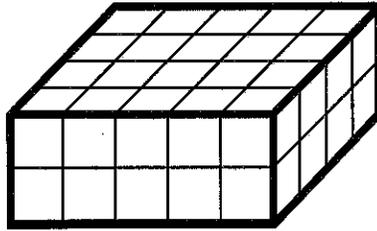
12. The total mass of a pineapple and a paw paw is shown on the scale below. The mass of the pineapple is 2.75 kg.



What is the mass of the paw paw, in grams?

Answer \_\_\_\_\_ grams

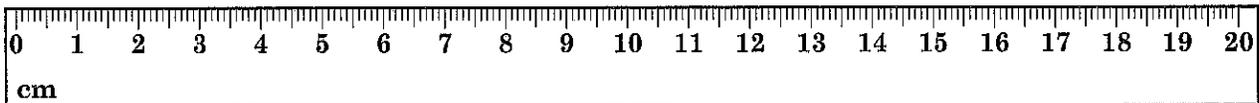
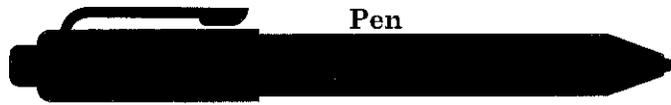
13. Identical cubes are packed into a box as shown below.



How many cubes are in the box?

Answer \_\_\_\_\_ cubes

14. Calculate the difference in length between the eraser and the pen.



Answer \_\_\_\_\_ cm

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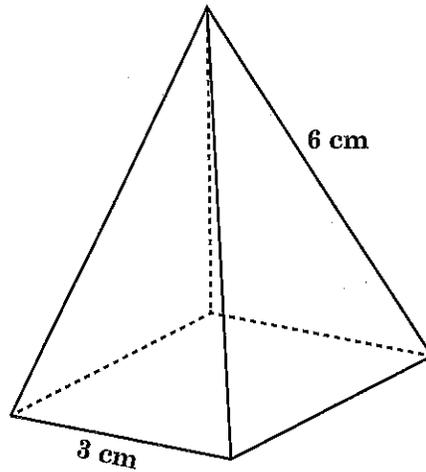
K (3)

A (1)

R (0)

TOTAL (4)

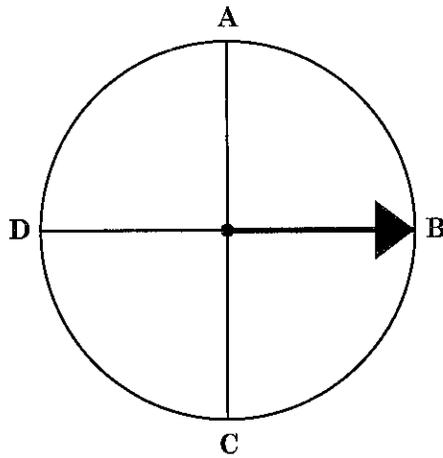
15. The pyramid shown below has a square base.



How many edges of the pyramid have a length of 6 cm?

Answer \_\_\_\_\_ edges

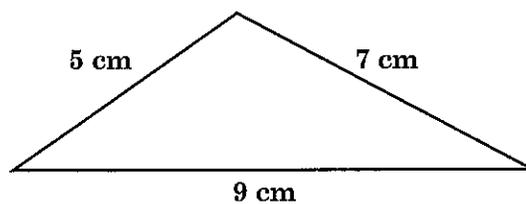
16. The arrow below is pointing to B. The arrow moves three quarter-turns in an anticlockwise direction.



To which letter is the arrow now pointing?

Answer \_\_\_\_\_

17. Name the type of triangle shown below.



Answer \_\_\_\_\_

DO NOT WRITE HERE

K (3)

A (0)

R (0)

TOTAL (3)

18. The table below shows the shoe sizes of some students.

**Shoe Sizes**

<b>Shoe Size</b>	9	8	7	6	5
<b>Number of Students</b>	11	3	12	9	3

Which shoe size represents the mode?

Answer \_\_\_\_\_

19. Calculate the mean of the numbers below.

32    14    24    0    5

Answer \_\_\_\_\_

20. The incomplete tally chart below shows the pets owned by students.

**Pets Owned by Students**

Pet	Number	Tally
Birds	8	<del>    </del>
Fishes	10	<del>    </del> <del>    </del>
Dogs	12	

Complete the tally chart to show the number of students who own dogs.

<b>DO NOT WRITE HERE</b>	<b>K (3)</b>		<b>A (0)</b>		<b>R (0)</b>		<b>TOTAL (3)</b>	
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## SECTION 2

21. Write the missing digit in **each** box below.

$$\begin{array}{r} 9 \quad \square \quad 2 \quad 1 \\ - 2 \quad 6 \quad 3 \quad 7 \\ \hline 6 \quad 5 \quad 8 \quad \square \\ \hline \end{array}$$

(2 marks)

22.  $6 - 2\frac{5}{14} =$

Answer \_\_\_\_\_

(2 marks)

23. Karen uses 0.65 metres of cloth to make 1 skirt.

How many metres of cloth would she need to make 12 similar skirts?

Answer \_\_\_\_\_ metres

(2 marks)

24. Kim and Ben estimated the solution to the following problem.

$60 \times 18$
----------------

Kim's Estimate
600

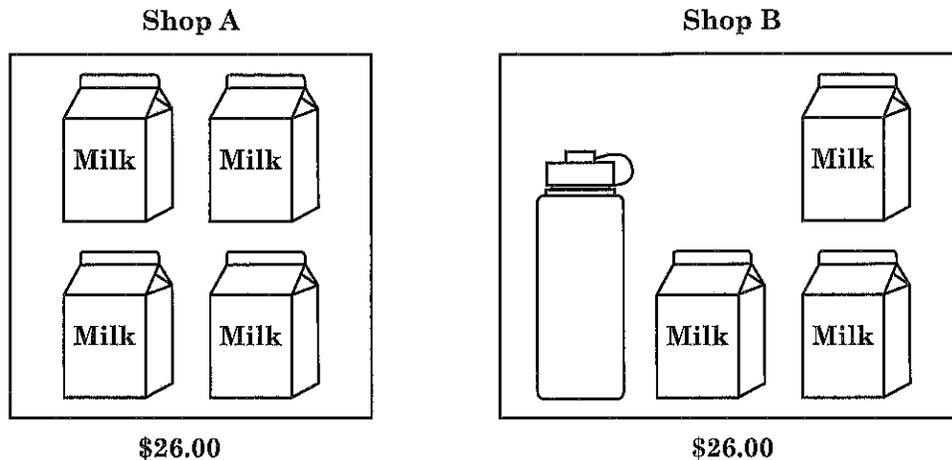
Ben's Estimate
1200

Explain who had the better estimate and how it was calculated.

Answer \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**(2 marks)**

25. Shop A and Shop B sell the same packet of milk. Shop A sells 4 packets of milk for \$26.00. Shop B sells 3 packets of milk and a container for \$26.00. The price of the container is \$3.20.



What is the **difference** in the price of a packet of milk at Shop A and Shop B?

Answer \$ \_\_\_\_\_

(3 marks)

26. Andy, Tom and Brad shared \$85 among themselves. Andy received \$10 more than Tom while Brad received \$20 more than Andy.

How much money did **each** boy receive?

Answer Tom \$ \_\_\_\_\_

Andy \$ \_\_\_\_\_

Brad \$ \_\_\_\_\_

**(3 marks)**

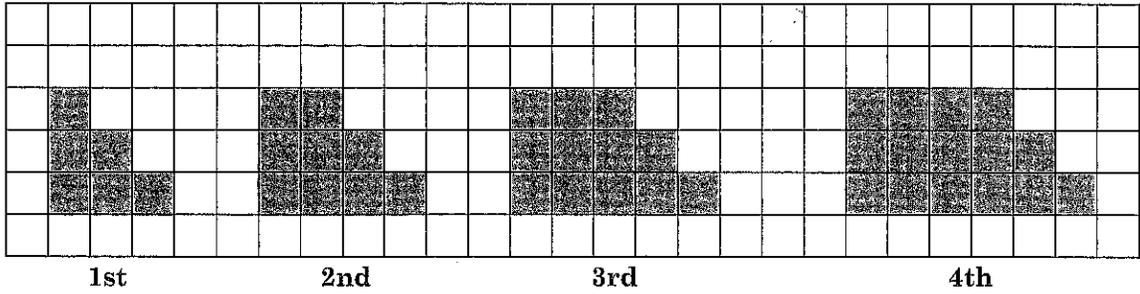
27. The cost of a bag is **three times** the cost of a cap. The total cost of 2 bags and 3 caps is \$180.

What is the cost of 1 cap?

Answer \$ \_\_\_\_\_

**(3 marks)**

28. The first 4 elements of a pattern are shown below.



How many squares will form the 11th element?

Answer \_\_\_\_\_ squares

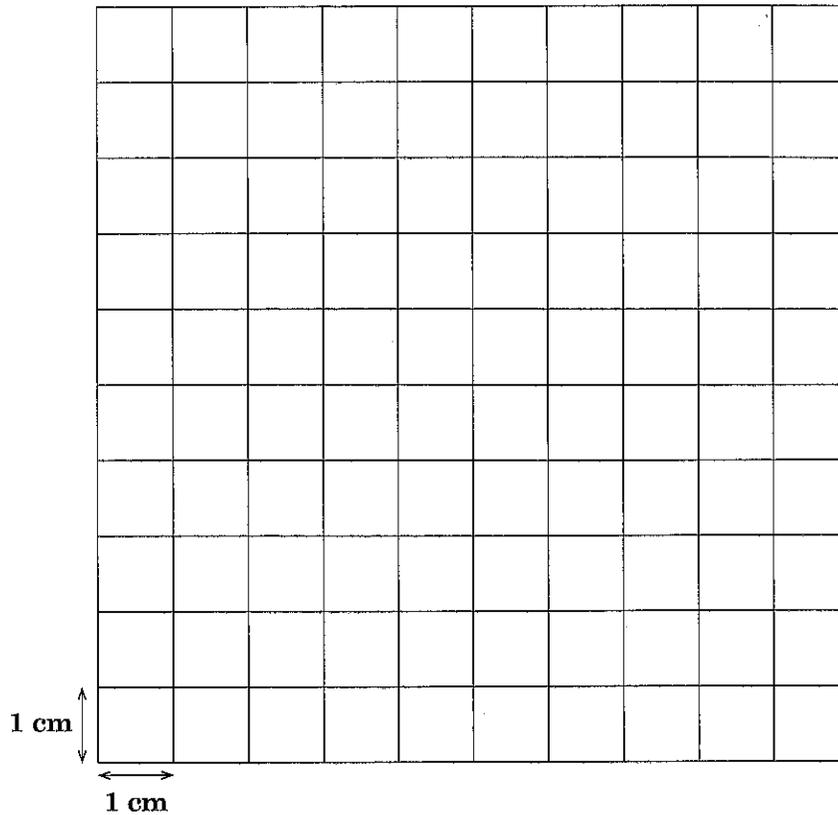
State the pattern rule.

Answer \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

(3 marks)

DO NOT WRITE HERE	K (0)	A (11)	R (9)	TOTAL (20)
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29. Draw a rectangle with an area of  $18 \text{ cm}^2$  on the grid below.



(2 marks)

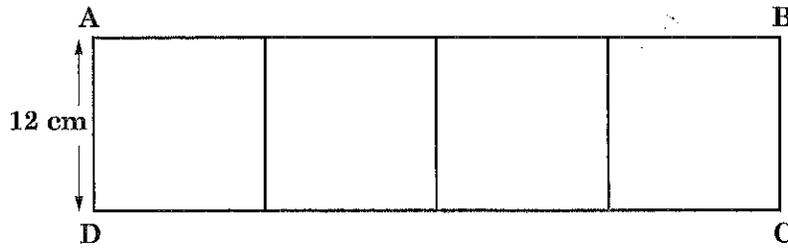
30. A clock shows that the time in Trinidad is 6:00 a.m. The clock is 15 minutes slow. The time in Trinidad is 2 hours ahead of the time in Canada.

What is the correct time in Canada?

Answer \_\_\_\_\_

(2 marks)

31. Four identical squares are placed side by side to form the rectangle ABCD.



Calculate the **difference** between the perimeter of **one** square and the perimeter of the rectangle ABCD.

Answer \_\_\_\_\_ cm (3 marks)

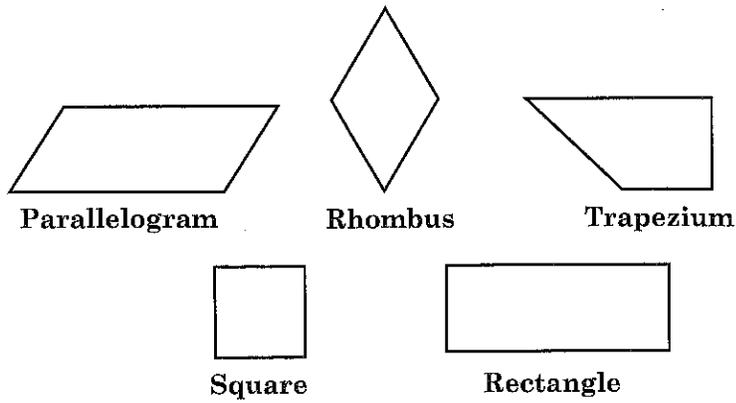
32. Keisha's luggage was over the limit by 5 kg. When she removed her hairdryer and shampoo, the luggage was below the limit by 500 g. When she put back the hairdryer, the luggage was over the limit by 2 kg.

What was the mass of the hairdryer, in grams?

Answer \_\_\_\_\_ grams (3 marks)

DO NOT WRITE HERE	K (0)		A (7)		R (3)		TOTAL (10)	
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33. Five quadrilaterals are shown below.

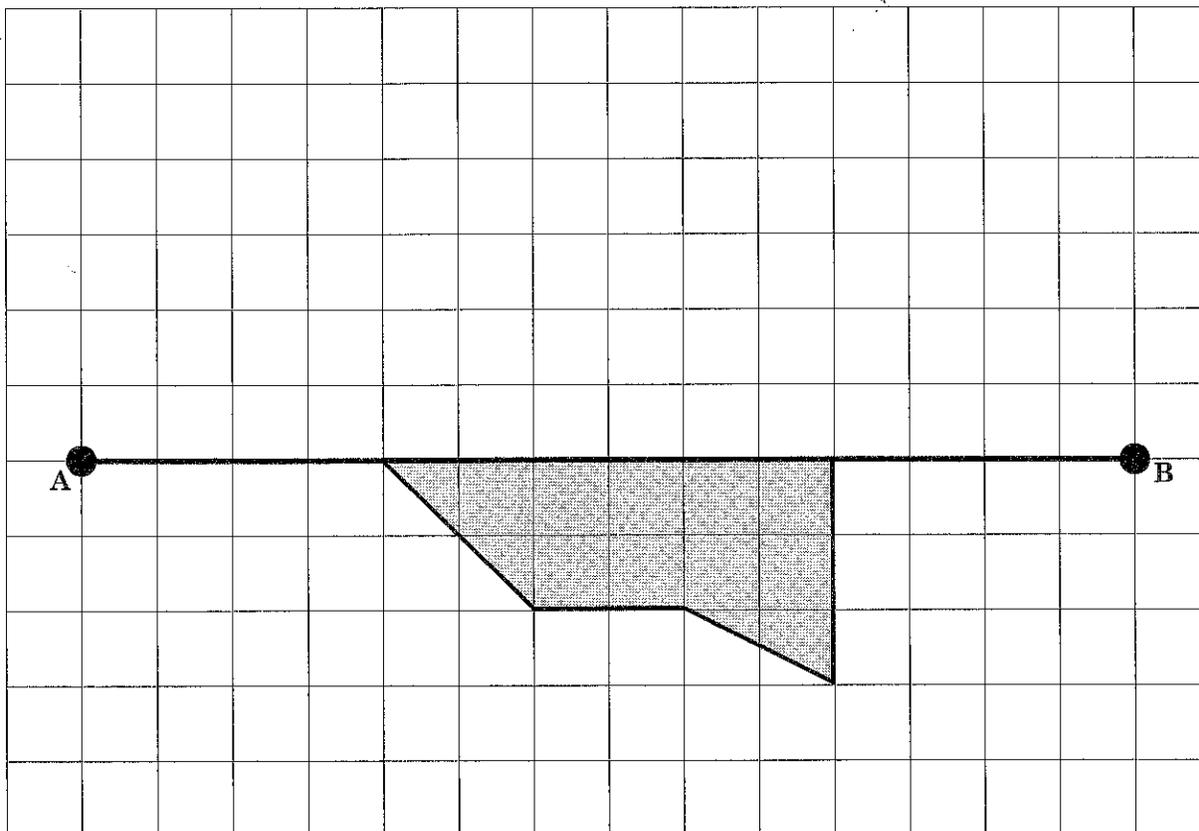


Write the name of the quadrilateral that matches the properties given.

Properties	Name
No lines of symmetry, one pair of parallel sides, one angle greater than a right angle	
Two lines of symmetry, two pairs of parallel sides, no right angles	

(2 marks)

34. Complete the shape on the grid below using AB as the line of symmetry.

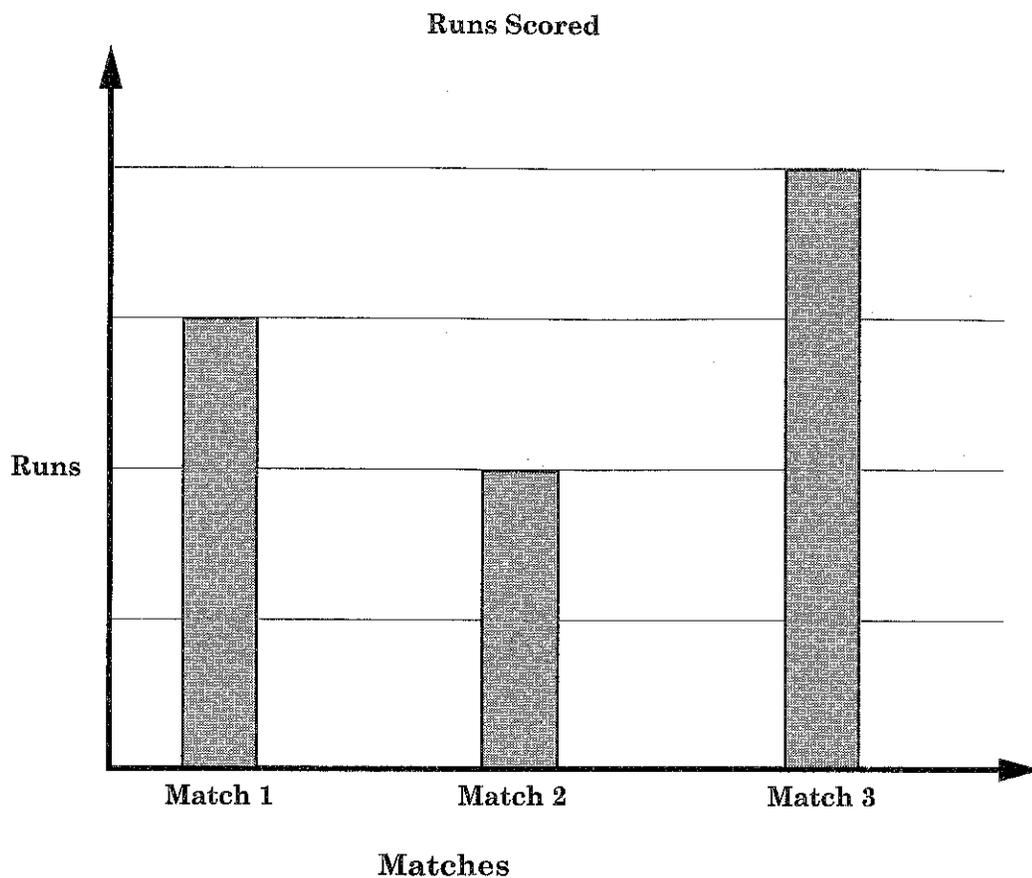


(2 marks)

DO NOT WRITE HERE	K (0)	A (4)	R (0)	TOTAL (4)
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35. The incomplete graph below shows the runs scored by a cricket team in 3 matches.



The total runs scored in Match 1 and Match 2 was 100.

How many runs were scored in Match 3?

Answer \_\_\_\_\_ runs

(2 marks)

36. The incomplete table below shows Paul's marks in 5 subjects. Paul's mean mark was 68.

**Paul's Marks in Five Subjects**

<b>Subject</b>	Science	Mathematics	Art	Music	English Language Arts
<b>Mark</b>	80		55	47	73

Calculate Paul's mark in Mathematics.

Answer \_\_\_\_\_

**(3 marks)**

<b>DO NOT WRITE HERE</b>	<b>K (0)</b>		<b>A (5)</b>		<b>R (0)</b>		<b>TOTAL (5)</b>	
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### SECTION 3

37. Tara bought an **equal number** of pies and doughnuts. She spent a total of \$70.

Pies	Doughnuts
	
2 for \$5	3 for \$10

How many pies did Tara buy?

Answer \_\_\_\_\_ pies (4 marks)

DO NOT WRITE HERE	K (0)		A (0)		R (4)		TOTAL (4)	
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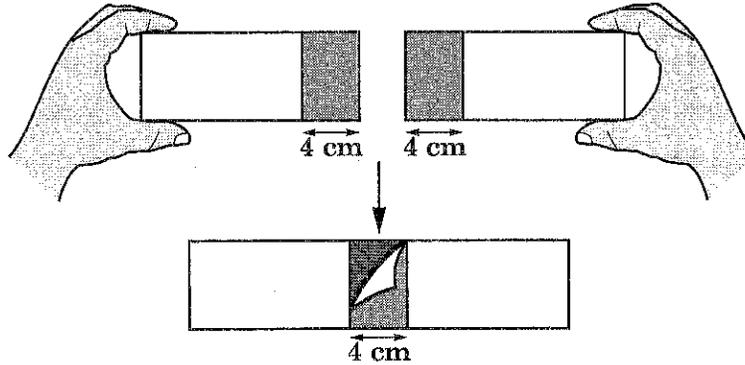
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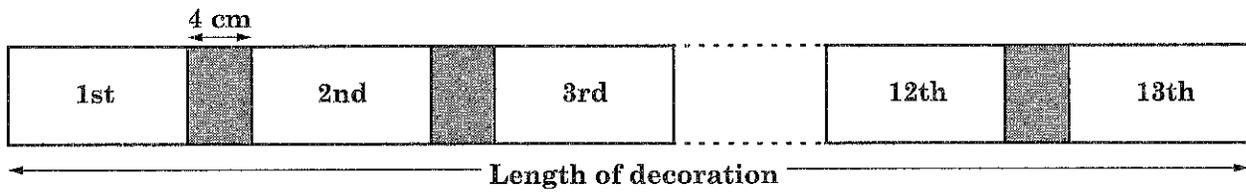


258

38. Dave made a decoration by sticking rectangular strips of Bristol board together. When two strips were stuck together, there was an overlap of a length of 4 cm from each strip.



Dave stuck 13 strips of Bristol board, each of length 15 cm, to make the decoration.



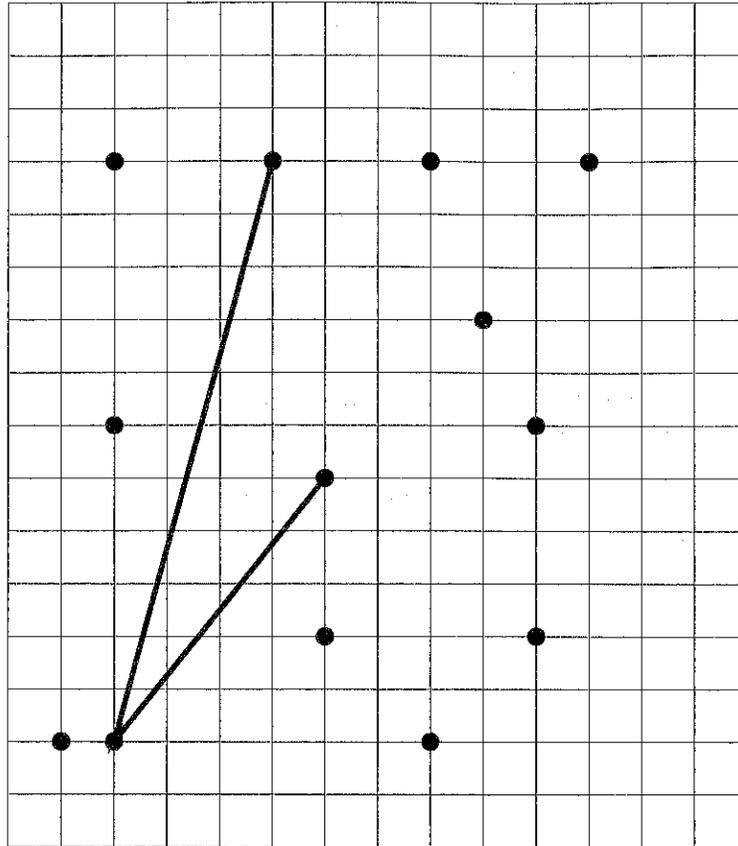
Calculate the length of Dave's decoration.

0013

Answer \_\_\_\_\_ cm (4 marks)

DO NOT WRITE HERE	K (0)	A (0)	R (4)	TOTAL (4)
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39. Jenna drew a five-sided shape with one **right** angle. Two sides of the shape are shown on the grid below.



- (a) Complete the shape by joining some of the dots on the grid.  
 (b) Describe **all** the angles in the shape.

Answer \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

(4 marks)

DO NOT WRITE HERE	K (0)		A (0)		R (4)		TOTAL (4)
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40. Brandy and Clara played 3 rounds in a video game. The incomplete table below shows their scores.

**Scores in Video Game**

Student	Round 1	Round 2	Round 3
Brandy	90	82	
Clara	48		

Medals were given based on the **average score** of the 3 rounds.

**Medals Based on Average Score**

Bronze	Silver	Gold
61–90	91–120	121–150

- (a) What is the **lowest** score that Brandy should obtain in Round 3 to qualify for a silver medal?

Answer \_\_\_\_\_

- (b) Clara's total score was 140. Her score in Round 2 was **three times** her score in Round 3.

What was Clara's score in Round 3?

Answer \_\_\_\_\_

**(4 marks)**

DO NOT WRITE HERE	K (0)		A (0)		R (4)		TOTAL (4)
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258

**END OF TEST**

**IF YOU FINISH BEFORE TIME IS CALLED,  
YOU MAY CHECK YOUR WORK BEFORE HANDING IN YOUR PAPER.**

0013





ANSWER BOOKLET

ANSWER BOOKLET

FILL IN ALL THE INFORMATION REQUESTED CLEARLY AND LEGIBLY.

TEST CODE 

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TEST CODE 

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SUBJECT MATHEMATICS 2022

SUBJECT MATHEMATICS 2022

Please place your label here.

Please place your label here.

READ THE FOLLOWING  
DIRECTIONS CAREFULLY.

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2. Make sure you read the instructions before you start to work on any section.
3. Write all your answers in this test booklet.
4. **DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.**

WRITE THE NAME OF YOUR SCHOOL BELOW.

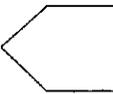
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WRITE YOUR FULL NAME BELOW.

\_\_\_\_\_

DATE OF BIRTH

<i>Day</i>	<i>Month</i>	<i>Year</i>

SEX  MALE   
 FEMALE

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**Instructions for the Mathematics Test**

You are **NOT** allowed to use **calculators**.

This test has **THREE** sections with a total of 40 questions.

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**SECTION 2** has 16 questions (Nos. 21 to 36).

**SECTION 3** has 4 questions (Nos. 37 to 40).

You have **75 minutes** for this test.

Answer **ALL** questions.

Read **EACH** question **CAREFULLY** before answering it.

Show **ALL** working in the spaces provided.

Marks will be given for correct steps shown.

Work carefully but do **NOT** spend too much time on any one question.

**DO NOT BEGIN UNTIL YOU ARE TOLD TO DO SO.**

## SECTION 1

1. Write the numeral for thirty-five thousand and ninety-six.

Answer \_\_\_\_\_

2. The number 875 is increased by 625. What is the new number?

Answer \_\_\_\_\_

3. Divide 372 by 12

Answer \_\_\_\_\_

4.  $\frac{1}{7}$  of  $\square = 19$

$\square =$

Answer \_\_\_\_\_

5. Circle the number that is NOT a square number.

9      12      16      25

6. Calculate  $\frac{11}{12} - \frac{2}{3}$

Answer \_\_\_\_\_

7. Calculate  $\frac{6}{7} \times 84$

Answer \_\_\_\_\_

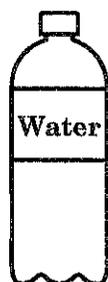
8. Convert  $\frac{47}{5}$  to a mixed number.

Answer \_\_\_\_\_

9. The maximum score of a spelling test was 50. Anika scored 60%. What was Anika's score on the test?

Answer \_\_\_\_\_

10. Sam bought two of the bottled water shown below. How much change did he receive from \$10.00?



\$ 4.25

Answer \$ \_\_\_\_\_

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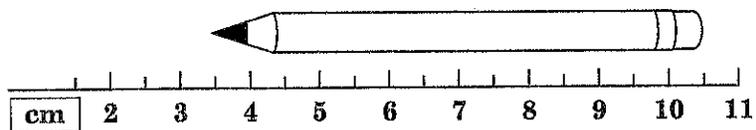
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A (1)

R (0)

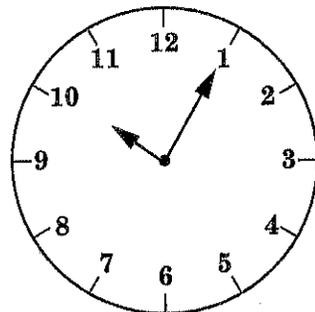
TOTAL (10)

11. What is the length of the pencil, in centimetres?



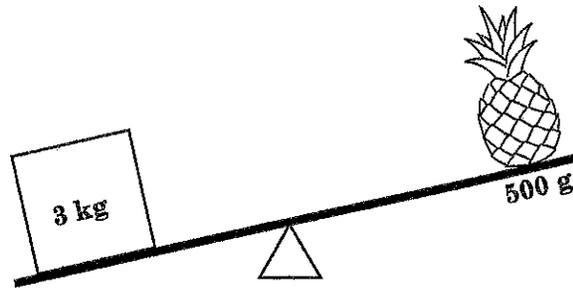
Answer \_\_\_\_\_ cm

12. Write the time shown on the clock.



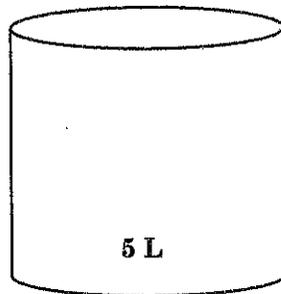
Answer \_\_\_\_\_

13. How many pineapples of the same mass will balance the scale?



Answer \_\_\_\_\_ pineapples

14. An empty container and a full carton of milk are shown below.



Container



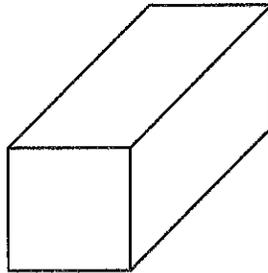
Carton

How many cartons of milk will fill the container?

Answer \_\_\_\_\_ cartons

DO NOT WRITE HERE	K (3)	A (1)	R (0)	TOTAL (4)
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15. The cross-section of the prism shown below is a square.



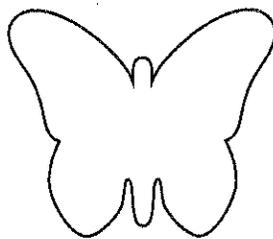
What is the name of the prism?

Answer \_\_\_\_\_

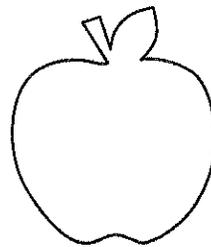
16. Which of the shapes shown below is NOT symmetrical?



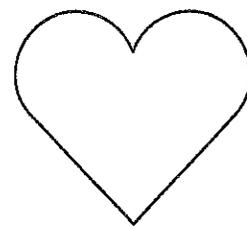
W



X



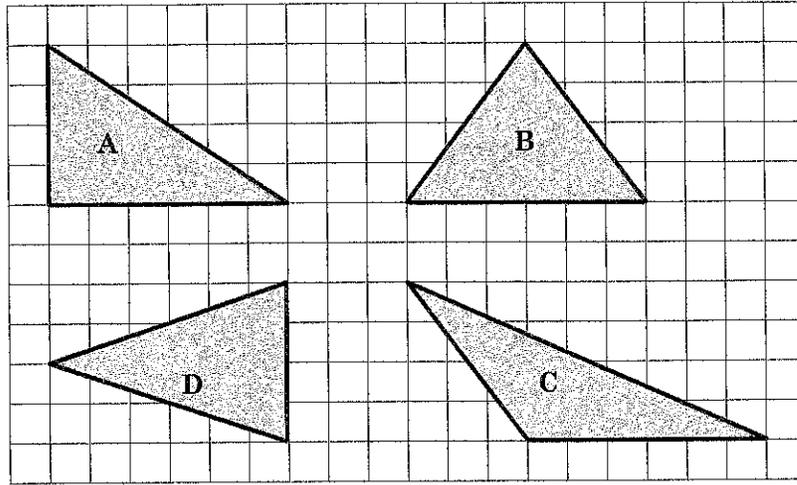
Y



Z

Answer \_\_\_\_\_

17. Which triangle below has an angle that is greater than a right angle?



Answer \_\_\_\_\_

DO NOT WRITE HERE	K (3)	A (0)	R (0)	TOTAL (3)
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18. The tally chart below shows the months in which the students in a class were born.

**The Months in which Students were Born**

Month	Tally
January	
April	
July	
September	

Which month represents the mode?

Answer \_\_\_\_\_

19. The table below shows Maddie's marks in her end of term tests.

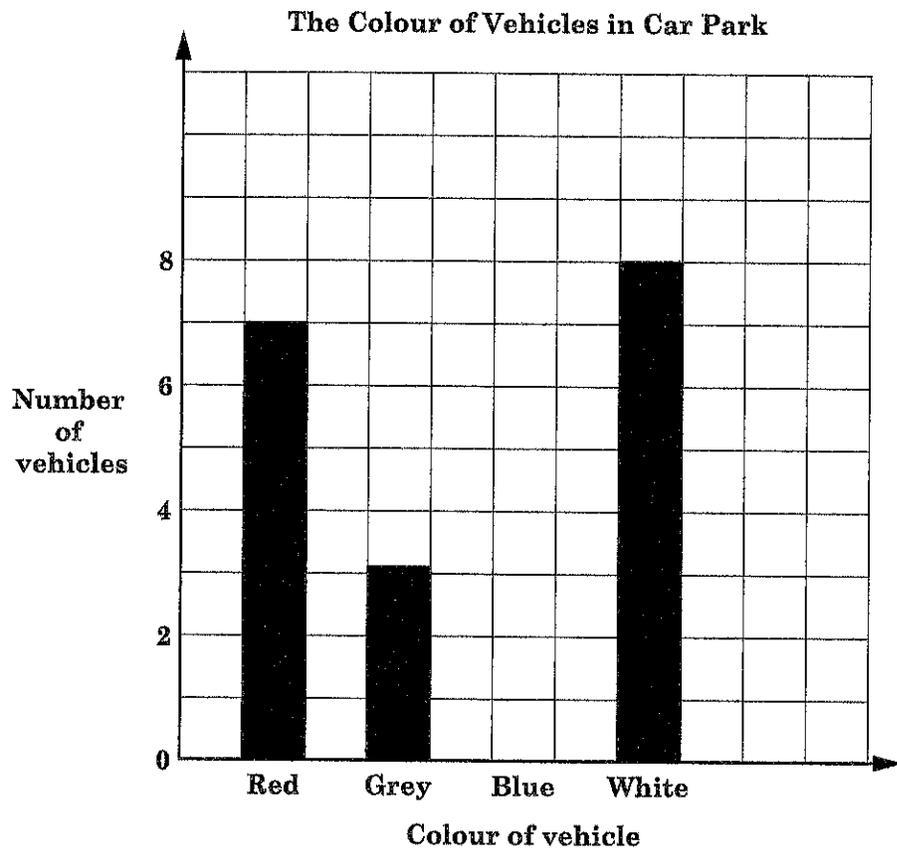
**Maddie's Marks**

Subject	Mathematics	Language Arts	Social Studies	Science
Marks obtained	80	91	82	58

What was Maddie's mean mark?

Answer \_\_\_\_\_

20. The incomplete bar graph below shows the colour of the vehicles in a car park.



If there are 24 vehicles in the car park, how many of the vehicles are blue?

Answer \_\_\_\_\_ blue vehicles

DO NOT WRITE HERE	K (3)	A (0)	R (0)	TOTAL (3)
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## SECTION 2

21. Write the following numbers in ascending order.

135.9      319.5      53.91      95.31

Answer \_\_\_\_\_

(2 marks)

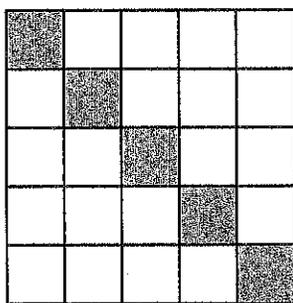
22. Write the correct number in each shape below to complete the number sentences.

$$199 \times 75 = (199 + \triangle) \times 75 - 75$$

$$199 \times 75 = \square \times 75 - 75$$

(2 marks)

23. The shaded fraction of the square represents 16 students in a class.



What is the **total** number of students in the class?

Answer \_\_\_\_\_ students

(2 marks)

24. Anil's age is a factor of 48. Seven years ago, his age was a multiple of 5.

What is Anil's age now?

Answer \_\_\_\_\_ years **(2 marks)**

25. Mr. Grant bought 48 m of wire. He used  $\frac{13}{16}$  of the wire to make basket frames.

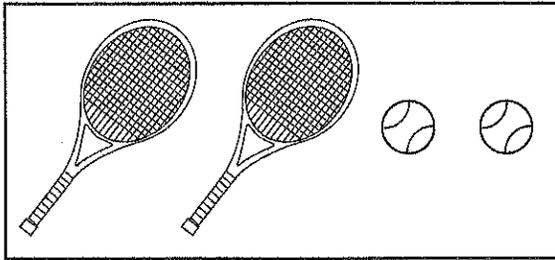
He cut the remaining wire into equal lengths to make basket handles. Each

basket handle was made with  $\frac{3}{4}$  m of wire.

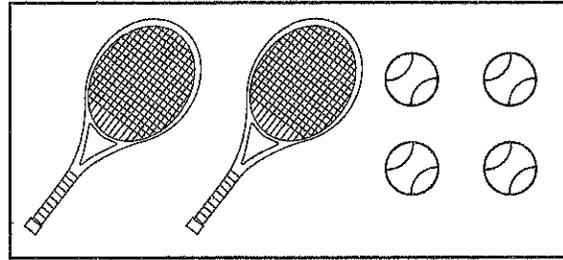
How many basket handles did he make?

Answer \_\_\_\_\_ basket handles **(3 marks)**

26. The costs of rackets and balls are shown below.



\$ 184.00



\$ 224.00

Calculate the cost of 1 racket.

Answer \$ \_\_\_\_\_

(3 marks)

27. A vendor received a total of \$125.00 from the sale of snow-cones and ice-cream cones. The cost of a snow-cone is \$5.00 and the cost of an ice-cream cone is \$10.00. He sold 7 more snow-cones than ice-cream cones.

Calculate the total number of snow-cones sold.

Answer \_\_\_\_\_ snow-cones

(3 marks)

28. Corey's weekly allowance was \$60.00. He received  $\frac{1}{8}$  of his weekly allowance for each of the three additional chores he completed.

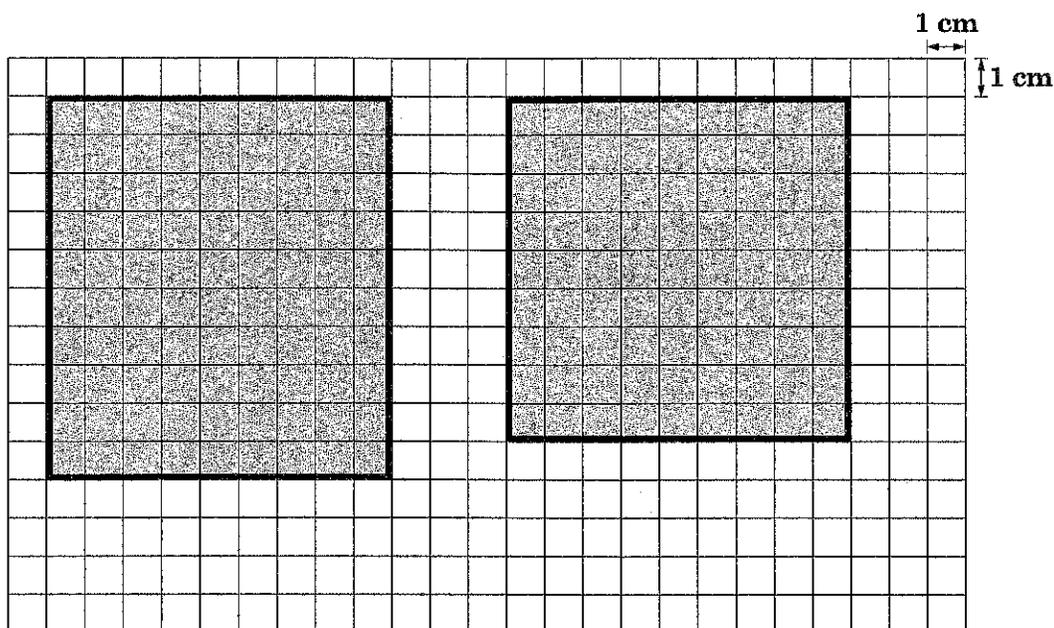
Calculate Corey's **total** allowance for the week.

Answer \$ \_\_\_\_\_

(3 marks)

DO NOT WRITE HERE	K (0)		A (11)		R (9)		TOTAL (20)
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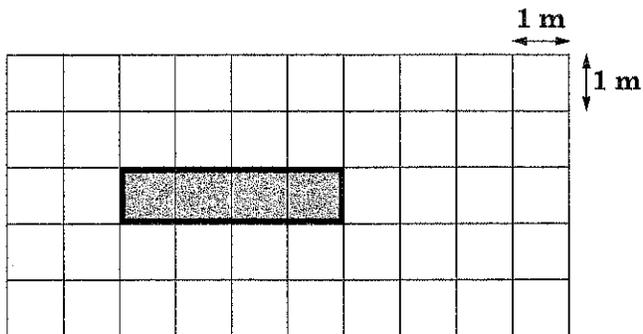
29. A square and a rectangle are drawn on the 1 cm grid below.



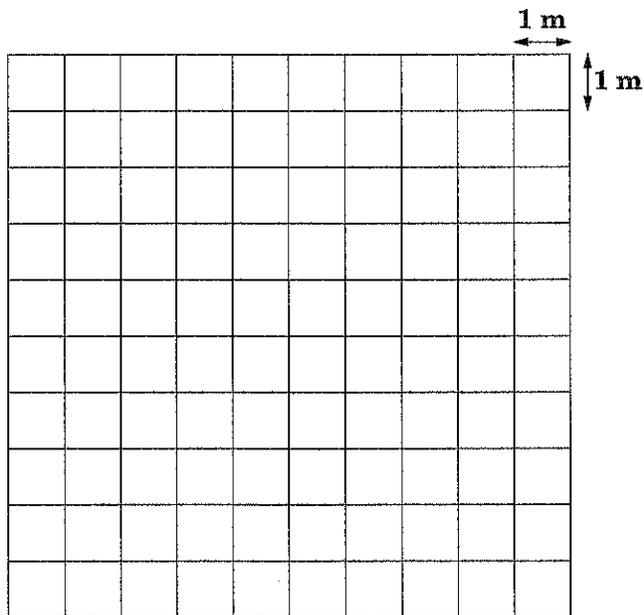
What is the **difference** in their perimeters?

Answer \_\_\_\_\_ cm (2 marks)

30. The shaded rectangle on the 1 m grid below represents a flower bed. The flower bed is  $\frac{1}{9}$  of the area of a square park.

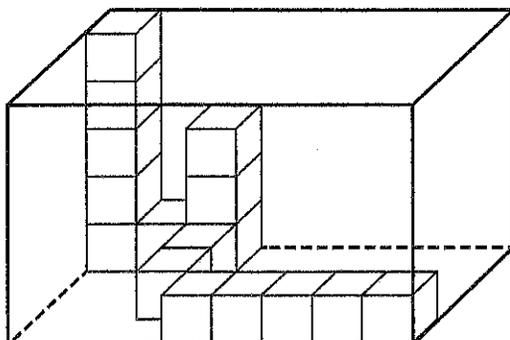


On the grid below, draw the **square** park and shade its area.



(2 marks)

31. Small identical cubes are placed inside a cuboid as shown below.



How many **more** of these cubes are needed to fill the cuboid completely?

Answer \_\_\_\_\_ cubes (3 marks)

32. The time on a clock is correct at 8:00 a.m. The clock loses 5 minutes every hour. What time would the clock show when the correct time is 3:00 p.m.?

Answer \_\_\_\_\_ p.m. (3 marks)

DO NOT WRITE HERE

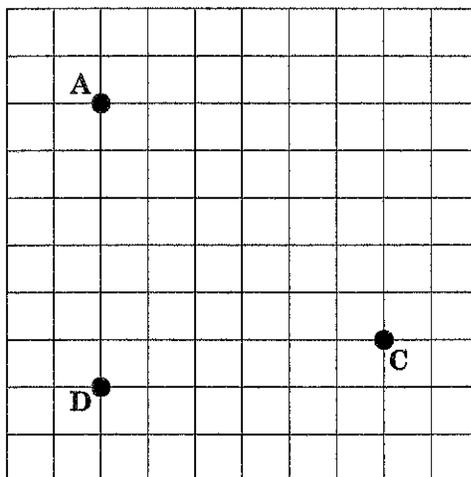
K (0)

A (7)

R (3)

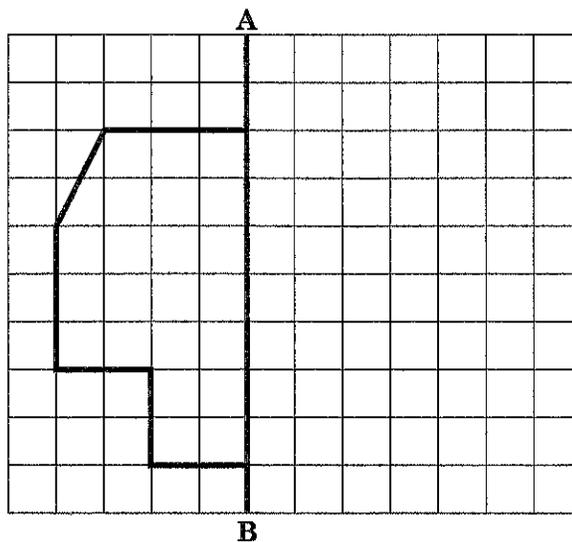
TOTAL (10)

33. On the grid below, label the position of the point B such that the quadrilateral ABCD has one right angle. Draw lines to form the quadrilateral ABCD.



(2 marks)

34. An incomplete symmetrical shape is shown on the grid below. Using AB as the line of symmetry, complete the shape.



(2 marks)

DO NOT WRITE HERE

K (0)

A (4)

R (0)

TOTAL (4)

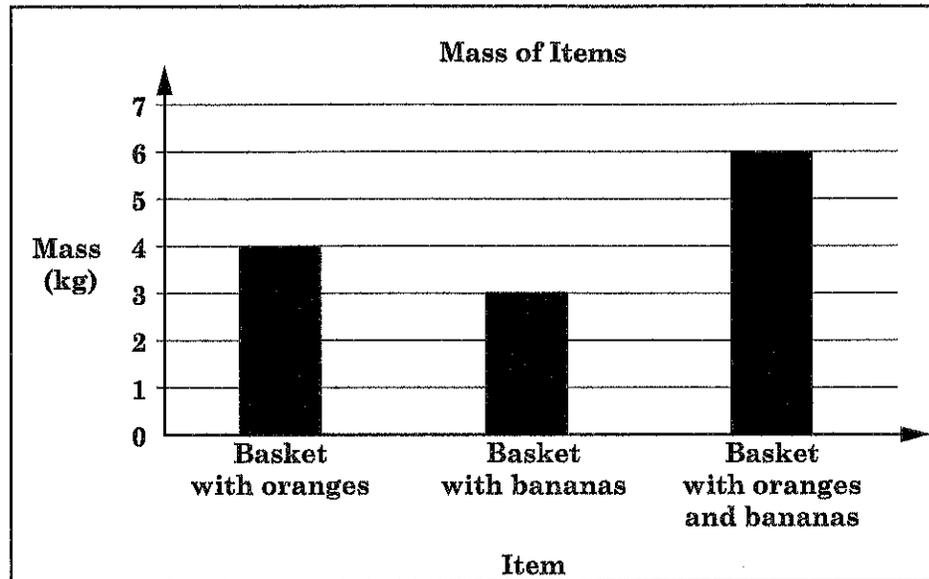
35. The mean of four numbers was 80. When one number was removed the mean remained 80.

Explain how this was possible.

Answer \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(2 marks)

36. A basket with oranges was weighed. The same basket was weighed with bananas. Finally, the basket was weighed with the oranges and the bananas. The graph below shows the mass of the items.



What is the mass of the basket?

Answer \_\_\_\_\_ kg (3 marks)

DO NOT WRITE HERE	K (0)		A (5)		R (0)		TOTAL (5)
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### SECTION 3

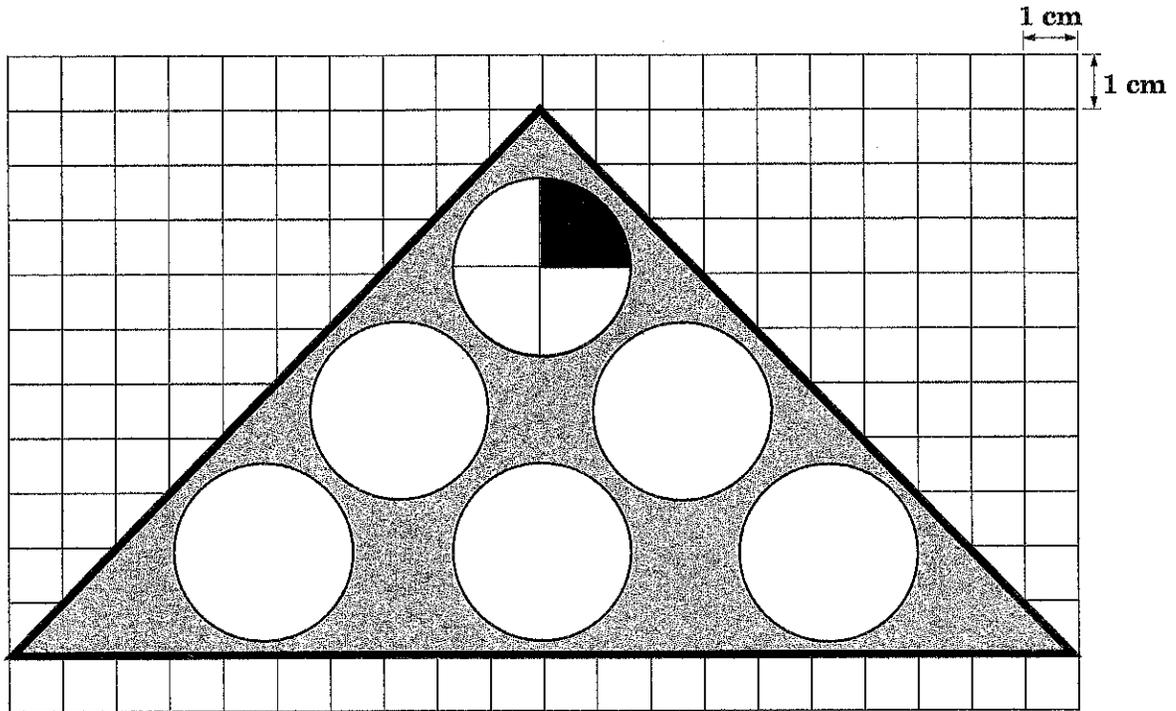
37. Indira had 90 pens. She kept  $\frac{1}{3}$  for herself and gave  $\frac{1}{4}$  of the remainder to Keone. She shared the remaining pens between Alison and Yvette such that Alison received 9 more pens than Yvette.

How many pens did Alison receive?

Answer \_\_\_\_\_ pens (4 marks)

DO NOT WRITE HERE	K (0)		A (0)		R (4)		TOTAL (4)	
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38. An isosceles triangle is drawn on the 1 cm grid below. Six identical circles partially cover the triangle. Each circle is divided into four equal parts. The area of the shaded fraction shown in the circle is  $2 \text{ cm}^2$ .

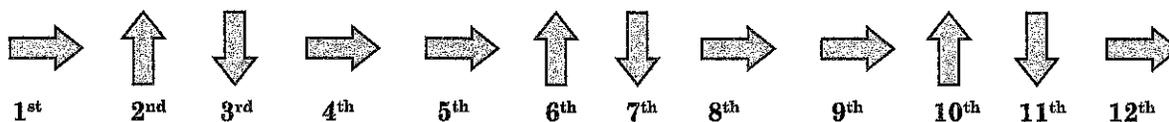


What area of the triangle is **not** covered by the circles?

Answer \_\_\_\_\_  $\text{cm}^2$  (4 marks)

DO NOT WRITE HERE	K (0)		A (0)		R (4)	TOTAL (4)
-------------------	-------	--	-------	--	-------	-----------

39. The incomplete pattern below shows the position of its elements.



(a) Explain the pattern rule.

Answer \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(b) Draw the 19<sup>th</sup> element.

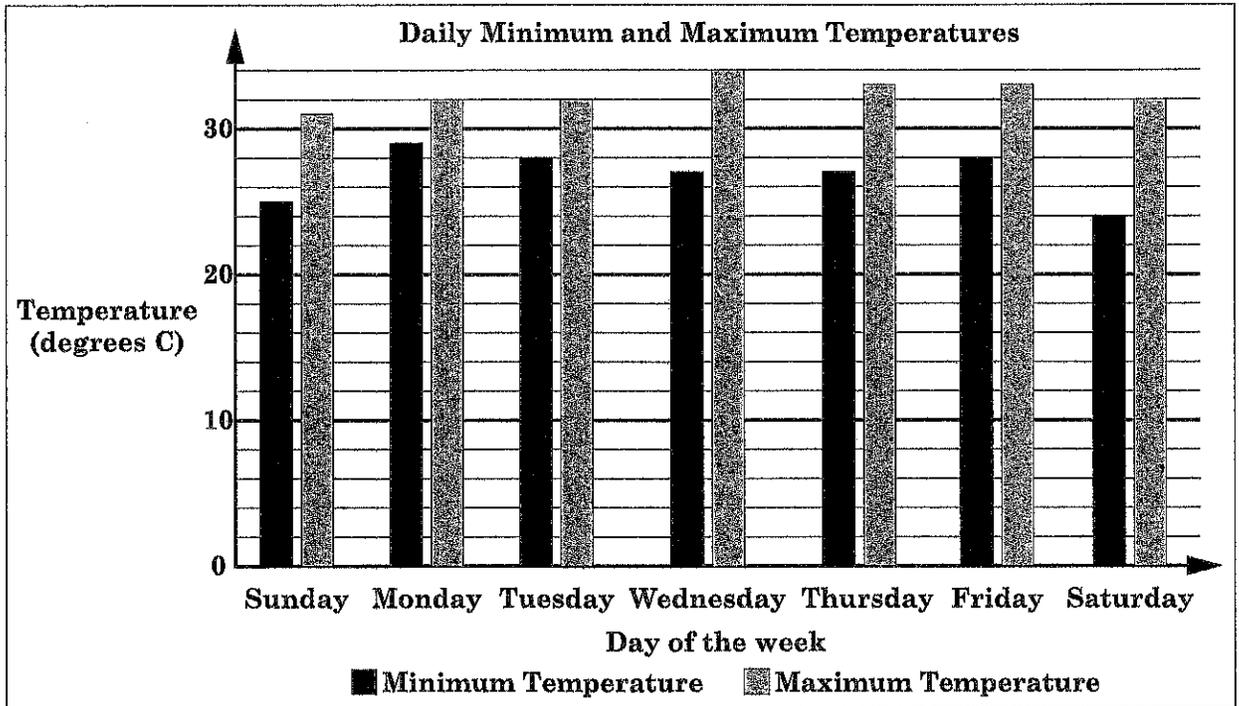
(c) State the position at which the pattern begins repeating for the fifth time.

Answer \_\_\_\_\_

(4 marks)

DO NOT WRITE HERE	K (0)		A (0)		R (4)		TOTAL (4)	
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40. The bar graph below shows the daily minimum and maximum temperatures recorded for one week.



- (a) What is the **difference** between the minimum and maximum temperature on the hottest day?

Answer \_\_\_\_\_ degrees C

- (b) On which days is the difference between the minimum and maximum temperatures the same?

Answer \_\_\_\_\_

- (c) On which day is the difference between the minimum and maximum temperatures the largest?

Answer \_\_\_\_\_

(4 marks)

DO NOT WRITE HERE	K (0)		A (0)		R (4)	TOTAL (4)	
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**END OF TEST**

**IF YOU FINISH BEFORE TIME IS CALLED,  
YOU MAY CHECK YOUR WORK BEFORE HANDING IN YOUR PAPER.**



ANSWER BOOKLET

ANSWER BOOKLET

FILL IN ALL THE INFORMATION REQUESTED CLEARLY AND LEGIBLY.

TEST CODE 

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TEST CODE 

0	4	2	3	4	0	1	1
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SUBJECT MATHEMATICS 2021

SUBJECT MATHEMATICS 2021

Please place your label here.

Please place your label here.

202

**READ THE FOLLOWING DIRECTIONS CAREFULLY.**

1. This test is divided into **THREE** sections.
2. Make sure you read the instructions before you start to work on any section.
3. Write all your answers in this test booklet.
4. **DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.**

WRITE THE NAME OF YOUR SCHOOL BELOW.

-----

WRITE YOUR FULL NAME BELOW.

--

DATE OF BIRTH		
<i>Day</i>	<i>Month</i>	<i>Year</i>

SEX 

	MALE	<input type="checkbox"/>
	FEMALE	<input type="checkbox"/>

A005

DO NOT WRITE IN THIS SPACE.

FOLDER NUMBER  

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DO NOT WRITE IN THIS SPACE.

FOLDER NUMBER  

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Item	Mark			Initials
	Knowing	Applying	Reasoning	
1				
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40				



**Instructions for the Mathematics Test**

You are NOT allowed to use **calculators**.

This test has **THREE** sections with a total of 40 questions.

**SECTION 1** has 20 questions (Nos. 1 to 20).

**SECTION 2** has 16 questions (Nos. 21 to 36).

**SECTION 3** has 4 questions (Nos. 37 to 40).

You have **75 minutes** for this test.

Answer **ALL** questions.

Read **EACH** question **CAREFULLY** before answering it.

Show **ALL** working in the spaces provided.

Marks will be given for correct steps shown.

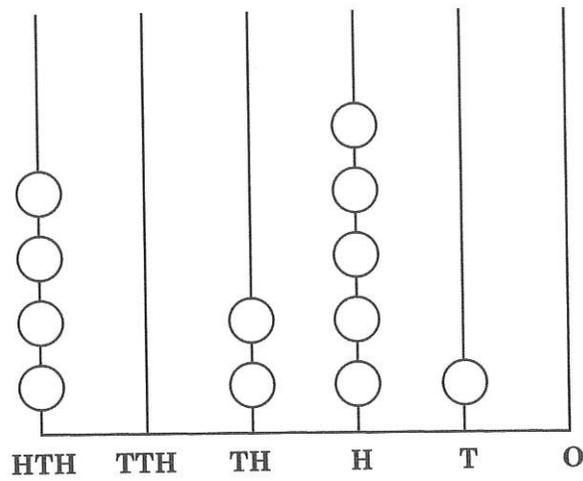
Work carefully but do **NOT** spend too much time on any one question.

**DO NOT BEGIN UNTIL YOU ARE TOLD TO DO SO.**



# SECTION 1

1. Write the numeral represented below.



Answer \_\_\_\_\_

2. Write the missing number in the box below.

$$64 = \square^2$$



3. Calculate  $305 \times 7$

Answer \_\_\_\_\_

4. Divide 288 by 9

Answer \_\_\_\_\_

5. Write  $\frac{37}{5}$  as a mixed number.

Answer \_\_\_\_\_



6.  $3\frac{5}{9} - \frac{1}{9} =$

Answer \_\_\_\_\_

7. Draw a circle around the 4 that has the value of 4 tenths.

4 4 . 4 4

8. Write ONE of the following symbols in the box below to make the number sentence correct.

> = <

0.63

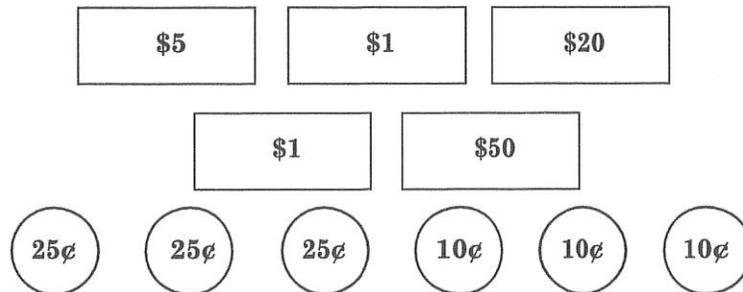
0.36



9. Calculate 40% of 500

Answer \_\_\_\_\_

10. Daniel used the coins and bills below to buy a T-shirt. What was the cost of the T-shirt?



Answer \$ \_\_\_\_\_

DO NOT WRITE HERE	K (9)		A (1)		R (0)		TOTAL (10)
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11. What is the MOST appropriate standard unit for recording the height of a room?

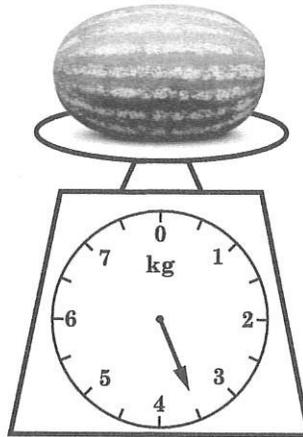
Answer \_\_\_\_\_

12. Complete the statement below.

17.42 kg = \_\_\_\_\_ g



13. A watermelon on a scale is shown below.



What is the mass of the watermelon?

Answer \_\_\_\_\_ kg

14. Kelly arrived 10 minutes after the start of a test. No additional time was given.

Start Time

End Time

How much time did Kelly have to complete the test?

Answer \_\_\_\_\_ minutes

DO NOT WRITE HERE

K (3)

A (1)

R (0)

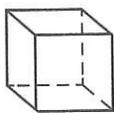
TOTAL (4)



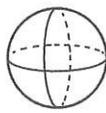
15. Which of the shapes shown below has a uniform cross-section?



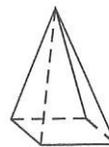
A



B



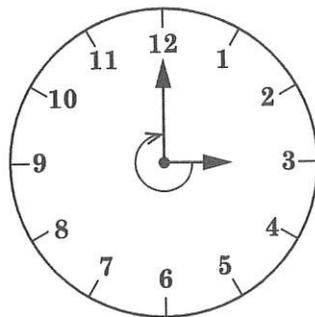
C



D

Answer \_\_\_\_\_

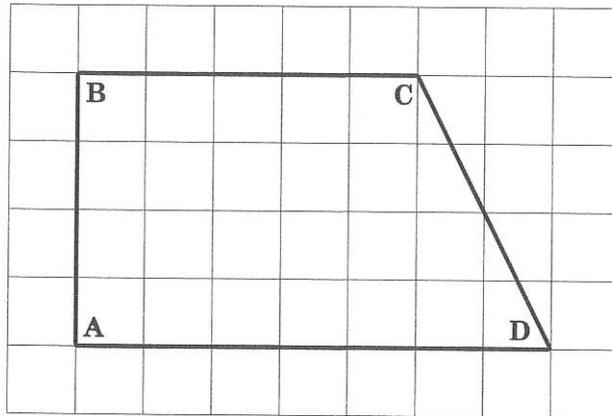
16. The hour hand of the clock shown below moved from 3 to 12.



How many quarter turns did it make?

Answer \_\_\_\_\_ quarter turns

17. Which angle in the shape shown below is **less** than a right angle?



Answer \_\_\_\_\_

DO NOT WRITE HERE	K (3)		A (0)		R (0)		TOTAL (3)	
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18. The mean of 5 numbers is 86. What is the sum of the 5 numbers?

Answer \_\_\_\_\_

19. Complete the tally chart below to show Jaheem's cricket score.

**Students' Cricket Score**

Student	Tally	Score
Ryan		23
Aril		15
Mark		2
Jaheem		17

20. The table below shows the places a group of students visited.

**Places Students Visited**

Place	Number of Students
Zoo	6
Science Centre	9
Museum	12
Pitch Lake	6

Which place represents the mode?

Answer \_\_\_\_\_

<b>DO NOT WRITE HERE</b>	<b>K (3)</b>		<b>A (0)</b>		<b>R (0)</b>		<b>TOTAL (3)</b>	
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## SECTION 2

21. Complete the bill shown below.

### APPLE RESTAURANT

Item	Unit Price	Total
2 Salads	\$ _____	\$72.00
1 Cheeseburger	\$24.00	\$24.00
4 Cookies	\$0.60	\$2.40
Total		\$ _____

(2 marks)



22. A banner is painted in three colours,  $\frac{3}{5}$  blue,  $\frac{1}{10}$  red and the remainder white.

What fraction of the banner is painted white?

Answer \_\_\_\_\_

(2 marks)

23. Jerome has 17.5 m of rope to make swings. Each swing requires 2 m of rope.

How many swings can he make from the rope?

Answer \_\_\_\_\_ swings (2 marks)

24. One third of a number is 18. What is  $\frac{5}{6}$  of the same number?

Answer \_\_\_\_\_

(2 marks)

25. Jenny and Cindy picked 72 cherries altogether. Jenny picked 16 cherries **more than** Cindy.

How many cherries did **each** girl pick?

Answers

Cindy picked \_\_\_\_\_ cherries

Jenny picked \_\_\_\_\_ cherries

(3 marks)

26. Maria and Sam bought the items shown below.

**Maria's Bill**

1 iPad
3 Smartwatches
4 Cellphones
Total \$3 028

**Sam's Bill**

3 iPads
5 Smartwatches
6 Cellphones
Total \$5 032

Calculate the TOTAL cost of one iPad, one smartwatch and one cellphone.

Answer \$ \_\_\_\_\_

**(3 marks)**

27. Jessie has some marbles. The number of marbles he has is more than 50 but less than 100. When the marbles are placed in groups of 10, there is a remainder of 3 and when they are placed in groups of 6, there is a remainder of 1.

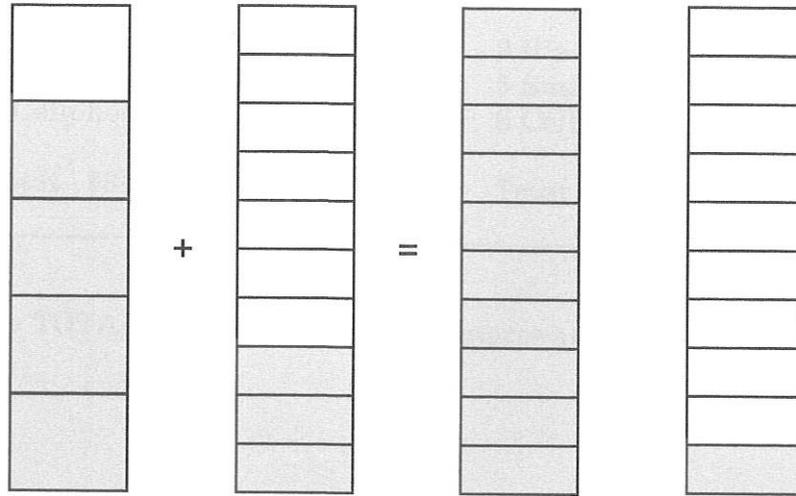
How many marbles does Jessie have?

Answer \_\_\_\_\_ marbles (3 marks)

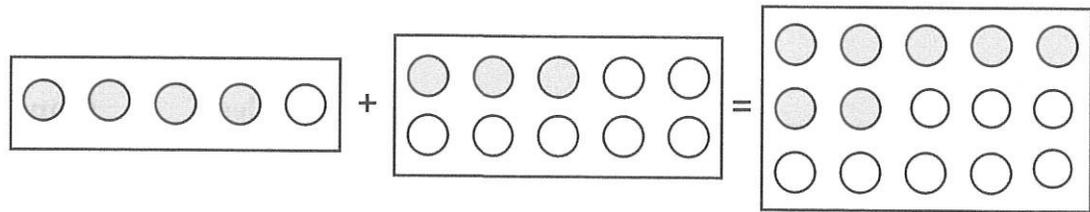


28. Two students were asked to use manipulatives to add  $\frac{4}{5}$  and  $\frac{3}{10}$ . Fraction pieces and counters were used as shown below.

Priya's fraction pieces



Sharda's counters



State which student's manipulatives represent the correct solution, and explain why.

Answer \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

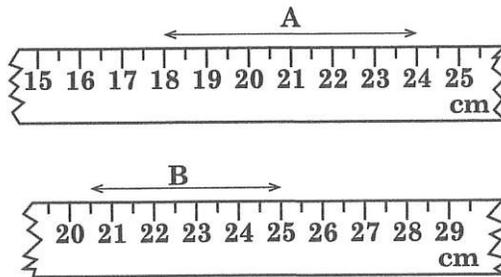
(3 marks)

DO NOT WRITE HERE	K (0)		A (11)		R (9)		TOTAL (20)
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29. Amanda left school at 3:20 p.m. and arrived home  $\frac{3}{4}$  of an hour later.  
What time did Amanda arrive home?

Answer \_\_\_\_\_ p.m. (2 marks)

30. Two lengths, A and B are shown below.

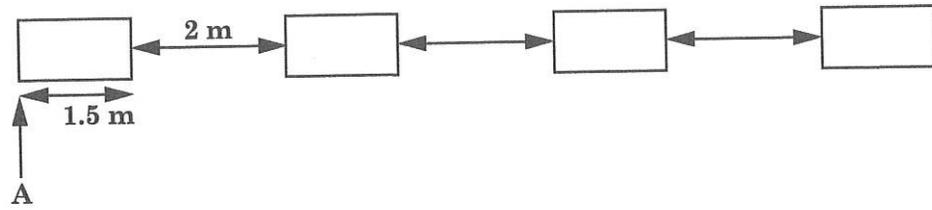


What is the sum of the lengths of A and B?

Answer \_\_\_\_\_ cm (2 marks)



31. Roadworks Company paints 20 white lines on the highway. The lines are 1.5 m in length and 2 m apart as shown below. Roadworks begins painting from Point A.



What is the distance from Point A to the end of the 20th line painted?

Answer \_\_\_\_\_ m (3 marks)

32. The incomplete table below shows the times taken by 5 cyclists to complete a race.

**Race Times of Cyclists**

Cyclist	Jiselle	Cleo	Mison	Nazra	Sue-Ann
Time (in minutes)	34.60	30.45	34.95		30.50

Nazra won the race and was 1.35 minutes faster than the cyclist who placed second.

What was Nazra's time, in minutes?

Answer \_\_\_\_\_ minutes (3 marks)

DO NOT WRITE HERE

K (0)

A (7)

R (3)

TOTAL (10)

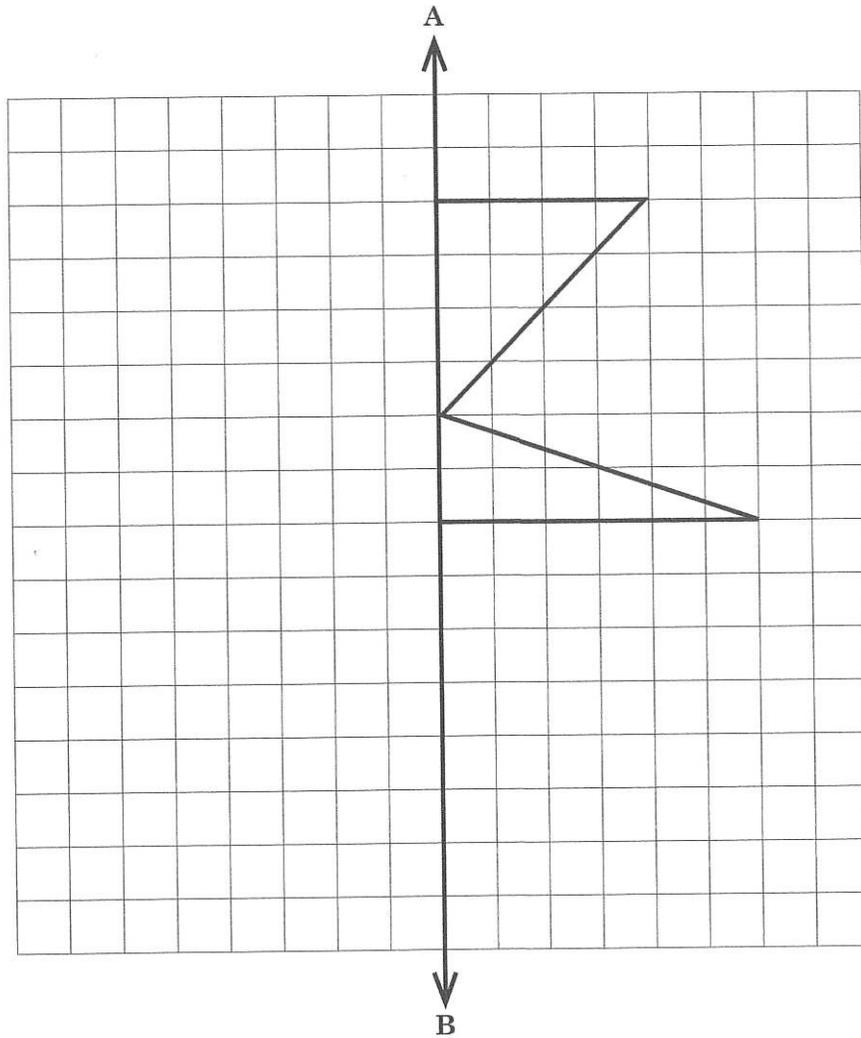


**33.** Draw **all** the faces of a triangular prism.

**(2 marks)**



34. Complete the shape using AB as the line of symmetry.



(2 marks)

DO NOT WRITE HERE	K (0)	A (4)	R (0)	TOTAL (4)
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35. The tally chart below shows the food chosen by a class of 27 students.

**Food Chosen by Students**

Food	Tally
Pizza	
Fried chicken	
Roti	
Gyros	

What **percentage** of the class chose the mode?

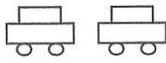
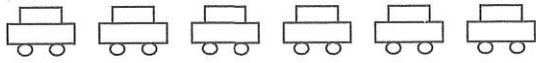
Answer \_\_\_\_\_ %

**(2 marks)**



36. The incomplete pictograph below represents a total of 105 toy cars owned by 4 boys.

**Toy Cars Owned by Boys**

<b>Danny</b>	
<b>Lex</b>	
<b>Amrit</b>	
<b>Tom</b>	

<b>Key</b>	 = 7 toy cars
------------	--

Complete the pictograph to show the number of toy cars owned by Lex.

**(3 marks)**

<b>DO NOT WRITE HERE</b>	<b>K (0)</b>		<b>A (5)</b>		<b>R (0)</b>		<b>TOTAL (5)</b>
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### SECTION 3

37. Macy shared plastic bottles and straws between Group A and Group B. The number of bottles given to Group B was  $\frac{2}{3}$  the number given to Group A. For every 4 bottles Macy gave to a group, she gave 5 straws.

Group	Plastic Bottles	Straws
A	24	_____
B	_____	_____
Total	_____	50

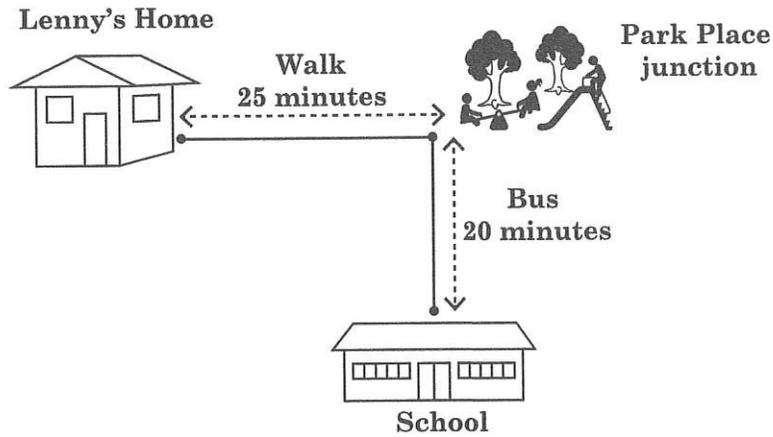
Complete the table to show the number of plastic bottles and straws each group received.

**(4 marks)**

<b>DO NOT WRITE HERE</b>	<b>K (0)</b>		<b>A (0)</b>		<b>R (4)</b>		<b>TOTAL (4)</b>
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38. The diagram below shows the time taken by Lenny to travel from home to school. School starts at 8:30 a.m. Lenny arrived at school 10 minutes early. Ravi took 12 minutes less than Lenny to walk from his home to Park Place junction.



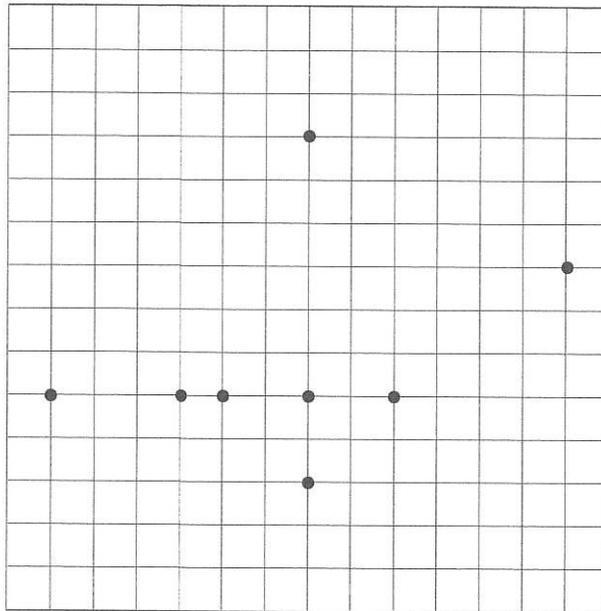
What time did Ravi leave home to arrive at Park Place junction at the same time as Lenny?

Answer \_\_\_\_\_ a.m. (4 marks)

DO NOT WRITE HERE	K (0)	A (0)	R (4)	TOTAL (4)
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39. (a) On the grid below, connect dots to form a quadrilateral with one line of symmetry and **no** parallel sides.



(3 marks)

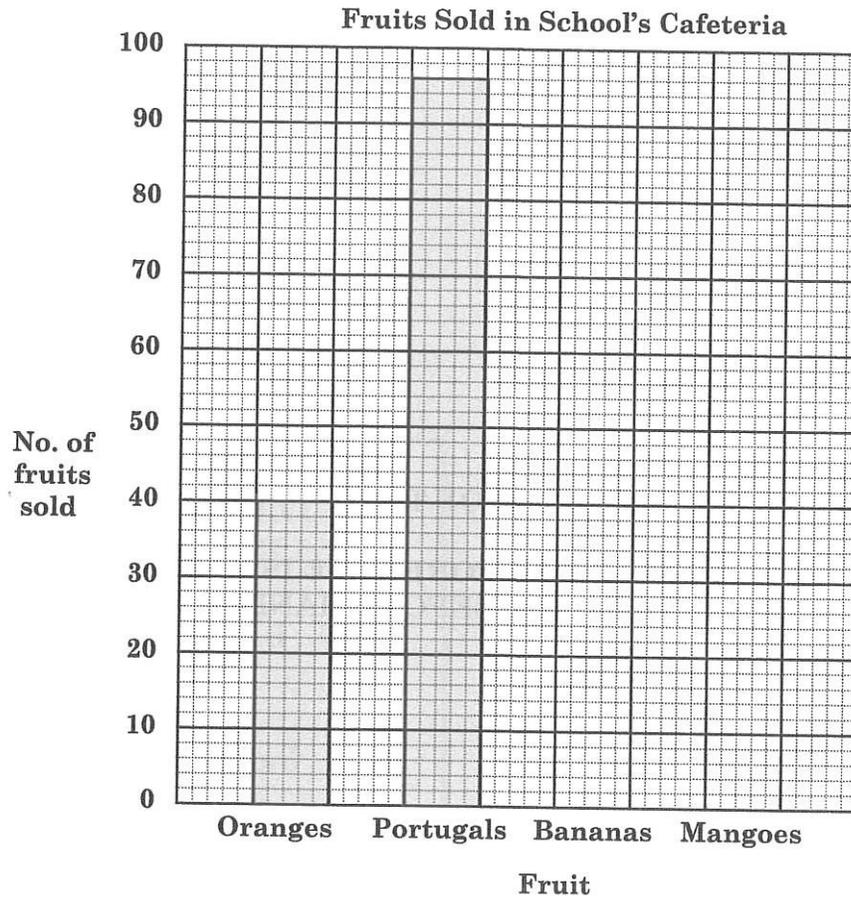
- (b) Draw the line of symmetry on the quadrilateral in part (a).

(1 mark)

DO NOT WRITE HERE	K (0)	A (0)	R (4)	TOTAL (4)
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40. The incomplete bar graph below shows the number of fruits sold in a school's cafeteria.



The number of portugals sold was 96. The number of mangoes sold was equal to  $\frac{1}{3}$  the number of portugals. The mean number of fruits sold was 60. Draw the bar to show the number of bananas sold.

(4 marks)

DO NOT WRITE HERE	K (0)		A (0)		R (4)		TOTAL (4)	
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**END OF TEST**

**IF YOU FINISH BEFORE TIME IS CALLED,  
YOU MAY CHECK YOUR WORK BEFORE HANDING IN YOUR PAPER.**





ANSWER BOOKLET

ANSWER BOOKLET

FILL IN ALL THE INFORMATION REQUESTED CLEARLY AND LEGIBLY.

TEST CODE 

0	4	2	3	4	0	1	1
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TEST CODE 

0	4	2	3	4	0	1	1
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SUBJECT MATHEMATICS 2020

SUBJECT MATHEMATICS 2020

Please place your label here.

Please place your label here.

**READ THE FOLLOWING DIRECTIONS CAREFULLY:**

1. This test is divided into **THREE** sections.
2. Make sure you read the instructions before you start to work on any section.
3. Write all your answers in this test booklet.
4. **DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.**

WRITE THE NAME OF YOUR SCHOOL BELOW.

\_\_\_\_\_

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WRITE YOUR FULL NAME BELOW.

\_\_\_\_\_

DATE OF BIRTH

<i>Day</i>	<i>Month</i>	<i>Year</i>
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SEX { MALE

FEMALE

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FOLDER NUMBER

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**DO NOT  
WRITE ON  
THIS PAGE**

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Strand	No.	Question	Score	Marker Initials
Number	1	1-10		
	2	21-25		
		26-30		
	3	41-42		
Measurement	4	11-14		
	5	31-34		
	6	43		
Geometry	7	15-17		
	8	35-37		
	9	44		
Statistics	10	18-20		
	11	38-40		
	12	45		
TOTAL				

Instructions for the Mathematics Test

You are **NOT** allowed to use **calculators**.

This test has **THREE** sections with a total of 45 questions.

**SECTION 1** has 20 questions (Nos. 1 to 20).

**SECTION 2** has 20 questions (Nos. 21 to 40).

**SECTION 3** has 5 questions (Nos. 41 to 45).

You have **75 minutes** for this test.

Answer **ALL** questions.

Read **EACH** question **CAREFULLY** before answering it.

Show **ALL** working in the spaces provided.

Marks will be given for correct steps shown.

Work carefully but do **NOT** spend too much time on any one question.

**DO NOT BEGIN UNTIL YOU ARE TOLD TO DO SO.**

## SECTION 1

1. Complete the place value chart to represent the numeral forty-five thousand, three hundred and six.

Tens of Thousands	Thousands	Hundreds	Tens	Ones
_____	5	_____	_____	_____

2. Write a whole number in the box to make the statement true.

$$3\ 100 + \boxed{\phantom{000}} < 3\ 124$$

3. What number is represented by

$$(3 \times 100) + (7 \times 1) + (5 \times \frac{1}{10})?$$

Answer \_\_\_\_\_

4. The total value of the 5 bills shown below is \$81.00. Write the missing value on the bill.

\$50

\$20

\$ \_\_\_\_\_

\$5

\$1

5. Paul picked 1 725 mangoes. Estimate the number of mangoes he picked to the nearest thousand.

Answer \_\_\_\_\_ mangoes

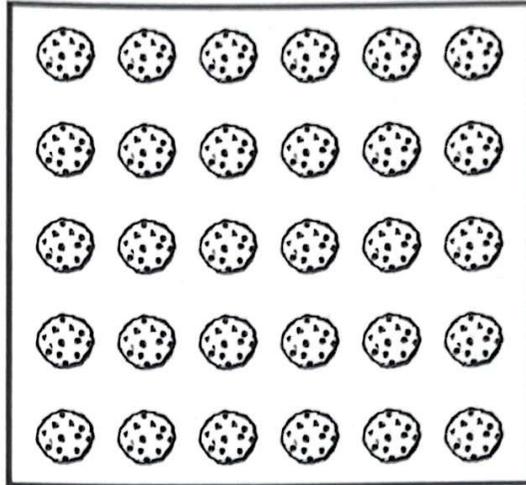
13. Priya drank 5 boxes of the orange juice shown below.



How many litres of orange juice did she drink?


Answer \_\_\_\_\_ litres

6. Jamaal baked the cookies shown on the tray below. He ate  $\frac{2}{15}$  of the cookies.



How many cookies did he eat?

Answer \_\_\_\_\_ cookies

7. Ariana spent  $\frac{2}{3}$  of her allowance and had \$10.00 remaining.

How much was her allowance?

Answer \$ \_\_\_\_\_

8.  $6 - \frac{4}{7} =$

Answer \_\_\_\_\_

9. Write the correct value in the box to complete the number sentence.

$$16 \times 11 = \left\{ 4 \times 11 \right\} + \left\{ \boxed{\phantom{00}} \times 11 \right\}$$

10. Arrange the values below in ascending order.

50%,  $\frac{3}{4}$ , 0.15

Answer \_\_\_\_\_

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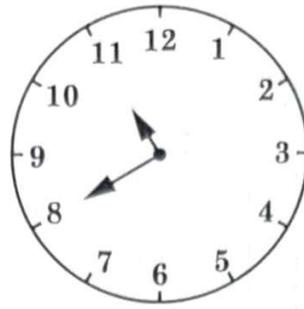
K (9)

A (1)

R (0)

TOTAL (10)

11. Write the time shown on the clock.



Answer \_\_\_\_\_

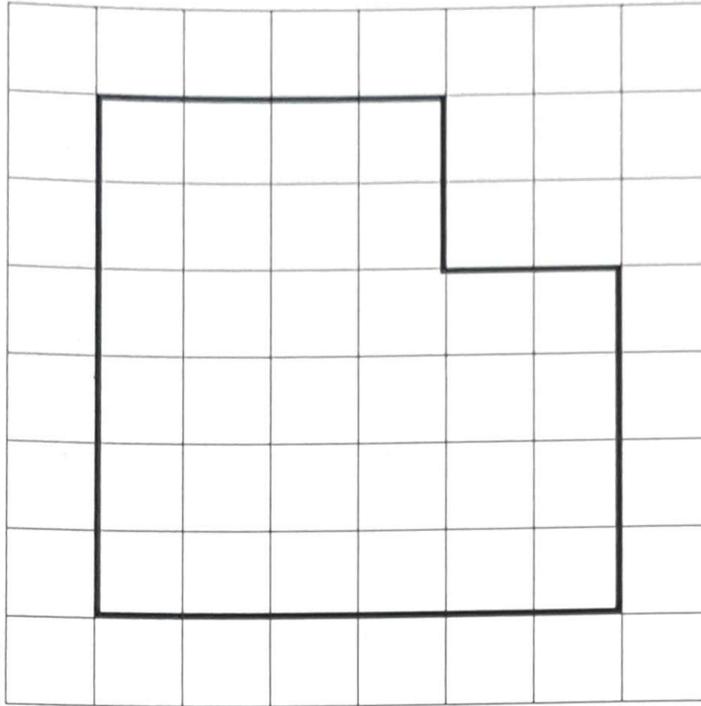
12. An incomplete calendar is given below.

NOVEMBER						
Sun	Mon	Tues	Wed	Thur	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26						

What day of the week is the 30th of November?

Answer \_\_\_\_\_

14. The shape below is drawn on a 1 cm grid.



Calculate the perimeter of the shape.

Answer \_\_\_\_\_ cm

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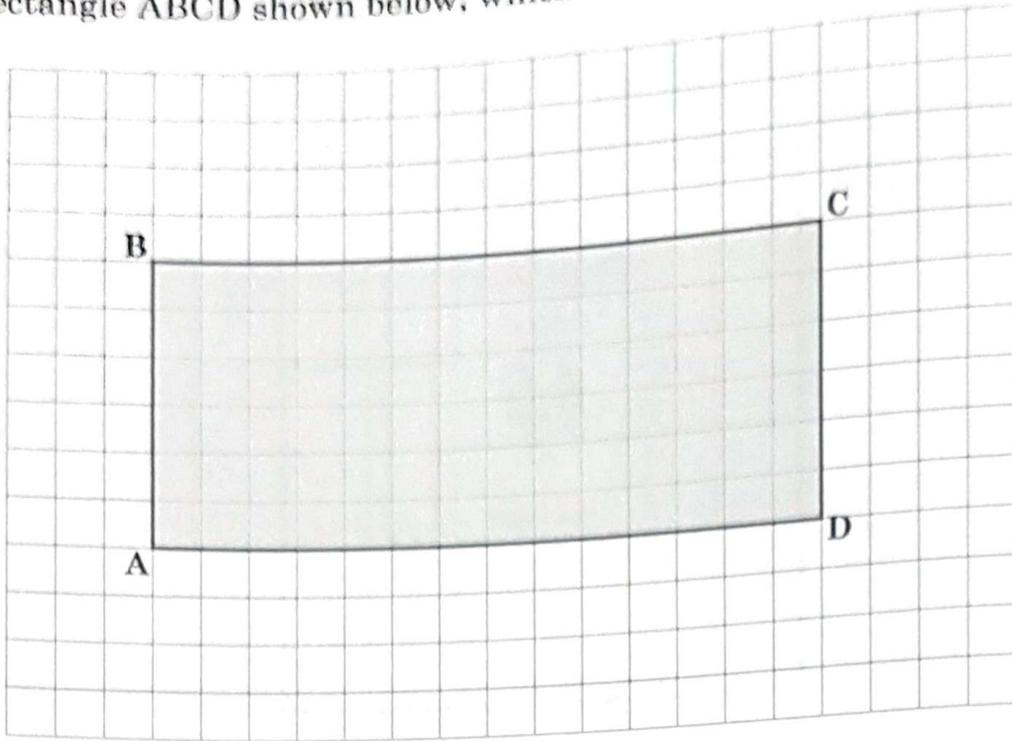
K (3)

A (1)

R (0)

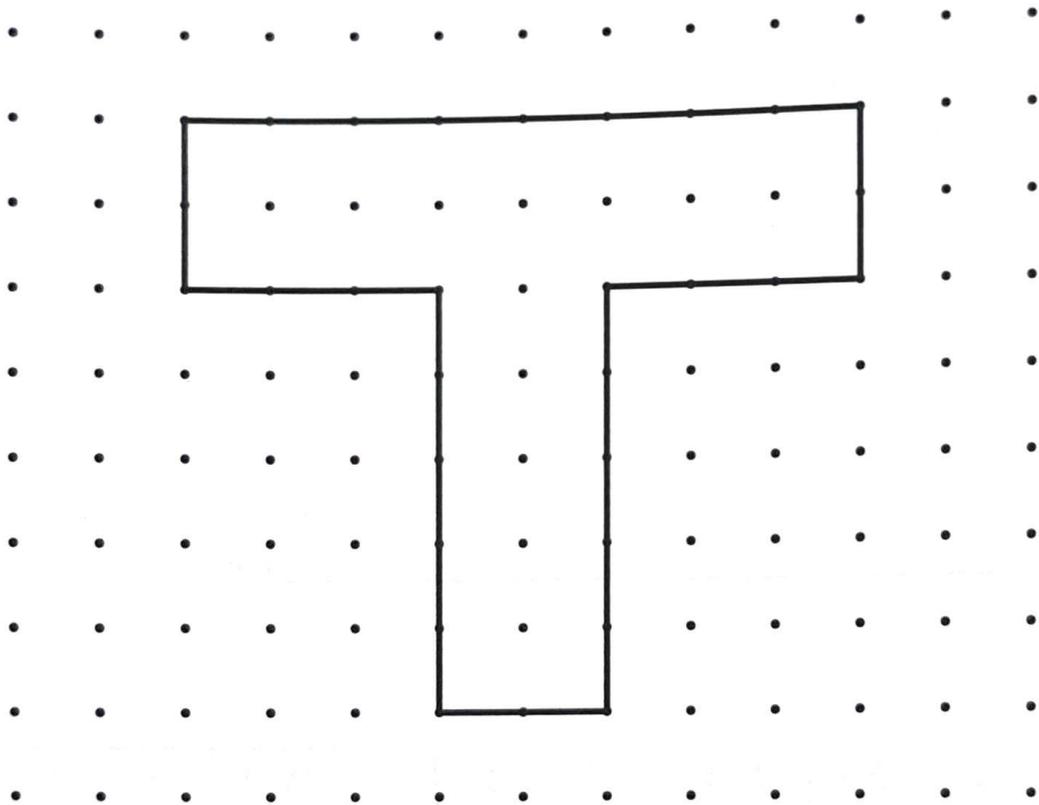
TOTAL (4)

15. In rectangle ABCD shown below, which side is parallel to AD?

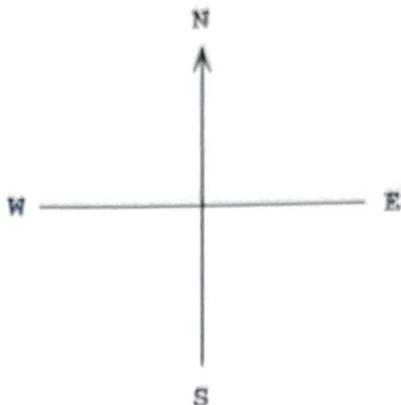


Answer \_\_\_\_\_

16. Draw the line of symmetry on the shape below.



17. Peter was standing facing south. He turned in a clockwise direction and is now facing east.



How many quarter turns did Peter make?

Answer \_\_\_\_\_ quarter turns

18. The shoe sizes of 15 students are shown below.

2	3	3	3	3
4	4	4	4	4
5	5	5	6	6

Which shoe size represents the mode?

Answer \_\_\_\_\_

19. Sue-Ann scored the runs shown below during a cricket tournament.

24, 122, 0, 78

What was her mean score?

Answer \_\_\_\_\_ runs

18. The shoe sizes of 15 students are shown below.

2	3	3	3	3
4	4	4	4	4
5	5	5	6	6

Which shoe size represents the mode?

Answer \_\_\_\_\_

19. Sue-Ann scored the runs shown below during a cricket tournament.

24, 122, 0, 78

What was her mean score?

Answer \_\_\_\_\_ runs

0. The incomplete tally chart below shows the 4 houses to which students belong.

House	Tally	Number
Poui		4
Rose		3
Hibiscus		1
Lily		6

Complete the tally chart to show the number of students in Lily house.



DO NOT WRITE HERE

K (3)

A (0)

R (0)

TOTAL (3)

21. Express  $\frac{12}{22} \times \frac{11}{15}$  in its lowest terms.

Answer \_\_\_\_\_

(2 marks)

22. Write the correct value in the box to complete the number sentence.

$$6 + \frac{1}{8} = 12 -$$

(2 marks)

23. Angie, Keisha and Chen shared 125 stickers among themselves. Keisha and Chen received an equal number of stickers and Angie received one less sticker.

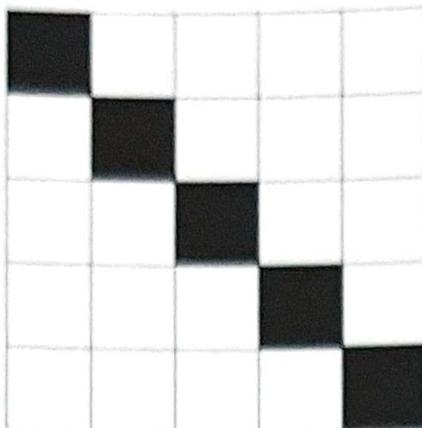
How many stickers did Keisha receive?

Answer \_\_\_\_\_ stickers (2 marks)

24. What is the sum of the five **smallest prime** numbers?

Answer \_\_\_\_\_ (2 marks)

25. On the grid shown below, 5 squares are shaded.



How many **more** squares must be shaded for 60% of the grid to be shaded?

Answer \_\_\_\_\_ squares (2 marks)

26. Greg spent  $\frac{1}{3}$  of his allowance and loaned  $\frac{1}{2}$  of the remaining money to his friend. He now has \$20.00 remaining. How much money did Greg have at first?

Answer \$ \_\_\_\_\_ (3 marks)

27. Insert the possible values of the missing digits to complete the operation.

$$\begin{array}{r} 3 \quad \square \quad 2 \quad \square \\ + \quad \square \quad 1 \quad 8 \\ \hline 4 \quad 5 \quad 3 \quad 8 \end{array}$$

(3 marks)

28. Andra needs to pay 2 sums of money, \$75.00 and \$54.00. She can use any number of each bill shown below to pay the exact amounts.

\$50

\$20

\$10

\$5

\$1

Which of the 2 sums of money can be paid using the fewer number of bills?  
Explain your answer.

Answer \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**(3 marks)**

29. Each week, Imran read 3 books and Shiva read 2 **more** books than Imran. They read 96 books altogether during the same number of weeks.

For how many weeks did they read?

Answer \_\_\_\_\_ weeks

(3 marks)

30. Twenty per cent of Kyra's savings is equal to 10% of Selena's savings.

What fraction of their total savings belongs to Kyra?

Answer \_\_\_\_\_

(3 marks)

DO NOT WRITE HERE

K (0)

A (16)

R (9)

TOTAL (25)

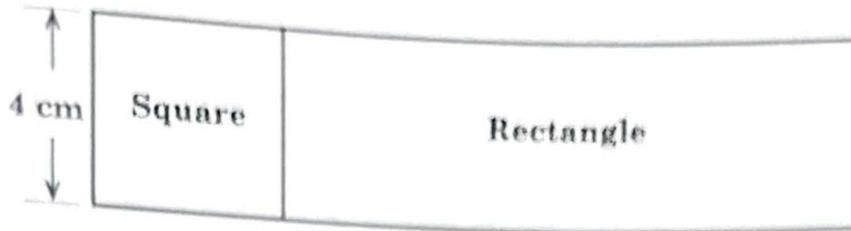
31. Debra fell asleep at 9:30 p.m. She slept for 4 hours and 45 minutes.

What time did she awake?

Answer \_\_\_\_\_ a.m.

**(2 marks)**

32. The compound shape below is made up of a square and a rectangle. The length of the rectangle is 3 times its width.



Calculate the area of the compound shape.

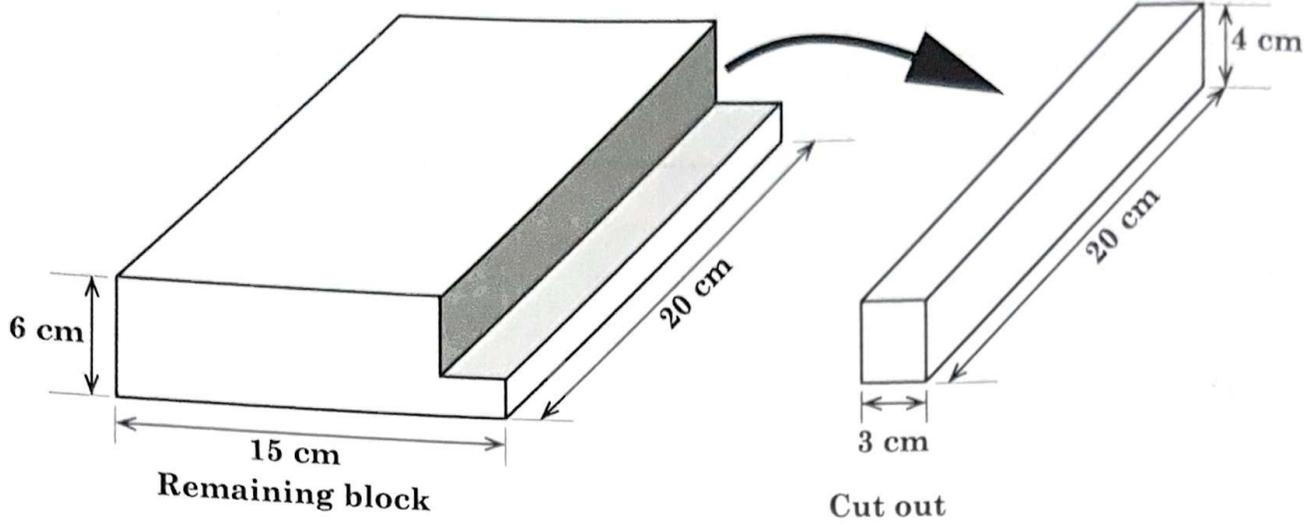
Answer \_\_\_\_\_  $\text{cm}^2$  (2 marks)

33. Tom's 2 suitcases had masses of 13.05 kg and 29 kg 600 g. The total mass allowed was 41.5 kg.

By how many kilograms were Tom's suitcases **over** the mass allowed?

Answer \_\_\_\_\_ kg (3 marks)

34. Allan had a wooden block in the shape of a cuboid. The block measured 20 cm in length, 15 cm in width and 6 cm in height. He cut out a small cuboid of length 20 cm, width 3 cm and height 4 cm.



What was the volume of the remaining block?

Answer \_\_\_\_\_  $\text{cm}^3$

(3 marks)

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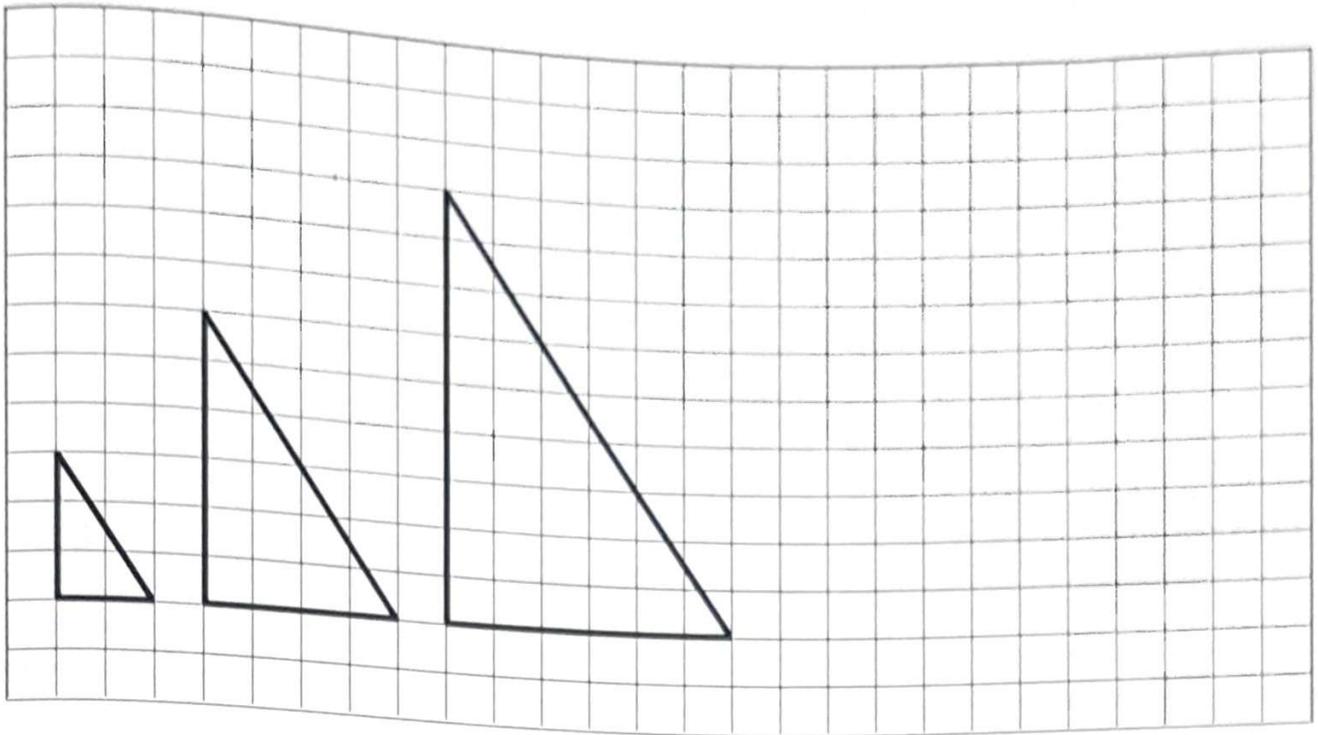
K (0)

A (7)

R (3)

TOTAL (10)

35. The triangles shown on the grid below form a pattern.



Describe the pattern rule.

Answer \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(2 marks)

36. A rhombus is folded along a line of symmetry to form two identical plane shapes. State **two** properties of the plane shape formed.

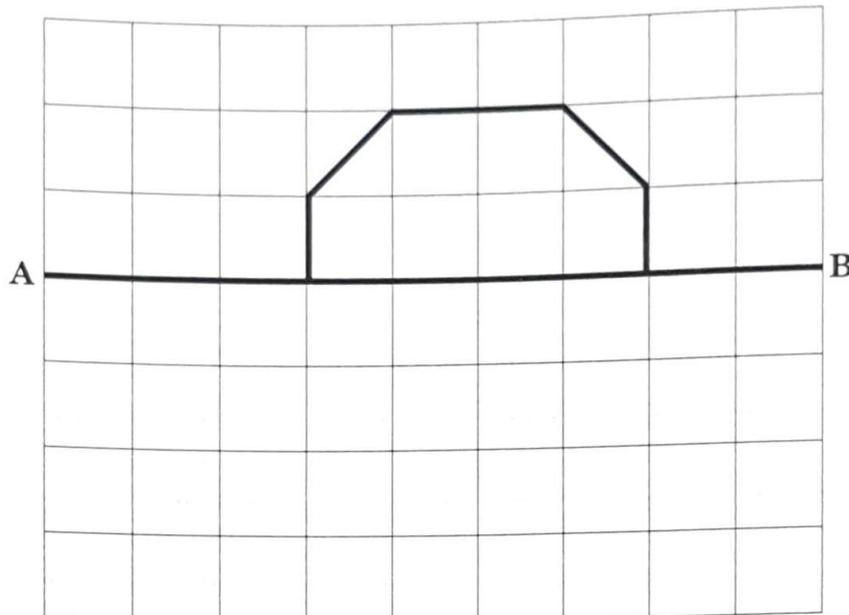
Answer \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(2 marks)

37. Complete the shape shown on the grid below using AB as the line of symmetry.



How many lines of symmetry are there in the **new** shape?

Answer \_\_\_\_\_ lines of symmetry (3 marks)

DO NOT WRITE HERE	K (0)	A (7)	R (0)	TOTAL (7)
-------------------	-------	-------	-------	-----------

38. The mean of 6 numbers was 7. Another number was added and the new mean was 9.  
What number was added?

Answer \_\_\_\_\_

(2 marks)

39. The table below shows Vishal's scores in 4 of the 5 subjects for which he wrote tests.

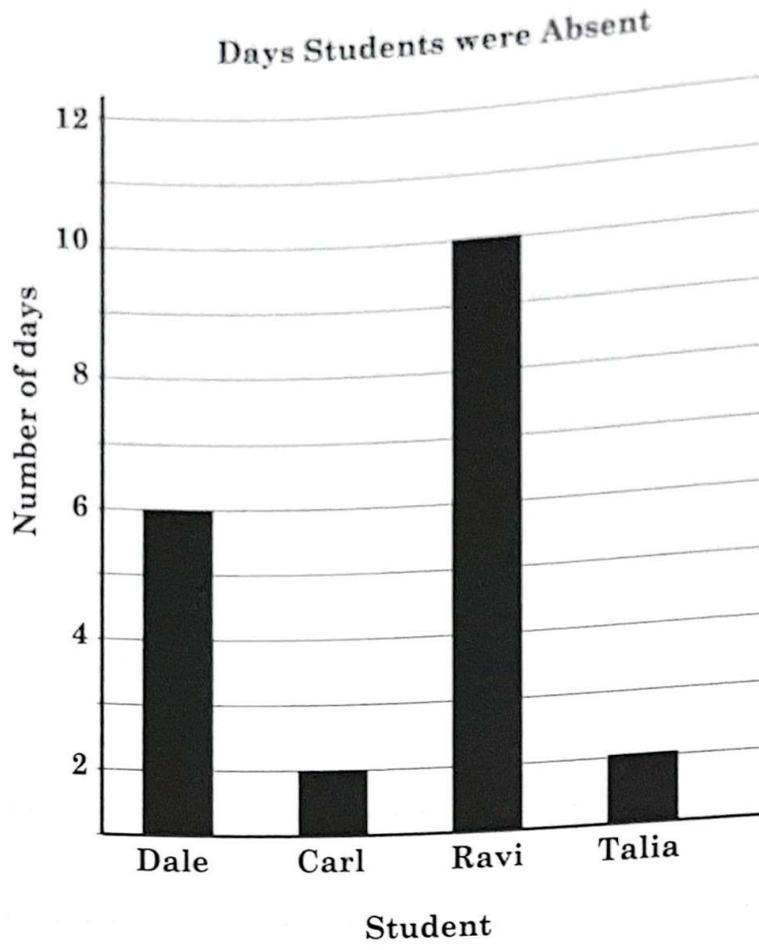
Subject	Score
Mathematics	72
Spelling	14 less than Mathematics
Creative Writing	70
Science	5 more than Creative Writing
Social Studies	

The mean score in the 5 subjects was 68. What was Vishal's score in Social Studies?

Answer \_\_\_\_\_

(3 marks)

40. The bar chart below shows the number of days students were absent during a term.

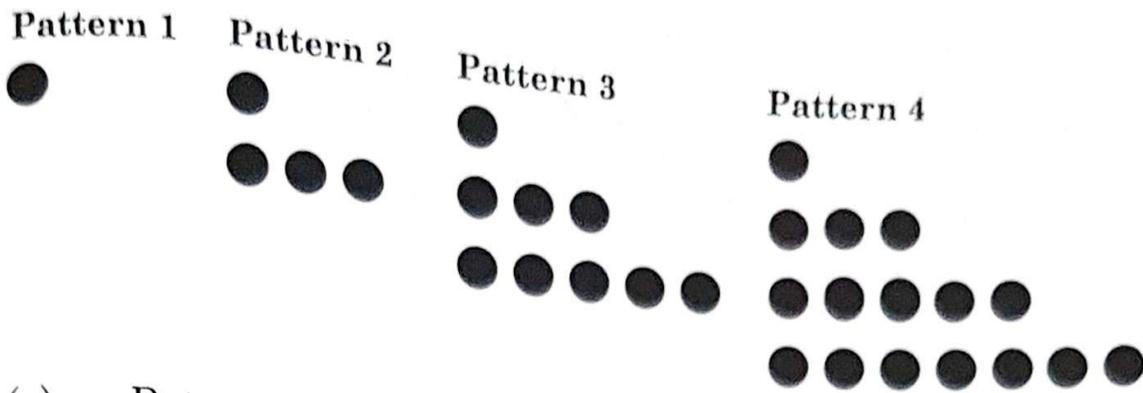


Calculate the difference between the mean number of days absent and the modal number of days absent.

Answer \_\_\_\_\_ days **(3 marks)**

<b>DO NOT WRITE HERE</b>	<b>K (0)</b>		<b>A (8)</b>		<b>R (0)</b>		<b>TOTAL (8)</b>	
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41. Identical counters are used to form patterns in a sequence. The first four patterns are shown below.



(a) Determine the number of counters that will form the **fifth** pattern in the sequence.

Answer \_\_\_\_\_ counters

(b) Draw the **fifth** pattern in the sequence.

(c) Malika said that the number of counters in each pattern is composite. Explain why she is **incorrect**.

Answer \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(4 marks)

42. There were 450 spectators at a cricket match. Of these  $\frac{1}{5}$  were adults (men and women) and the others were children (boys and girls).

There were twice as many boys as girls.

The number of men was equal to half the number of girls.

How many women were at the cricket match?

Answer \_\_\_\_\_ women (4 marks)

DO NOT WRITE HERE

K (0)

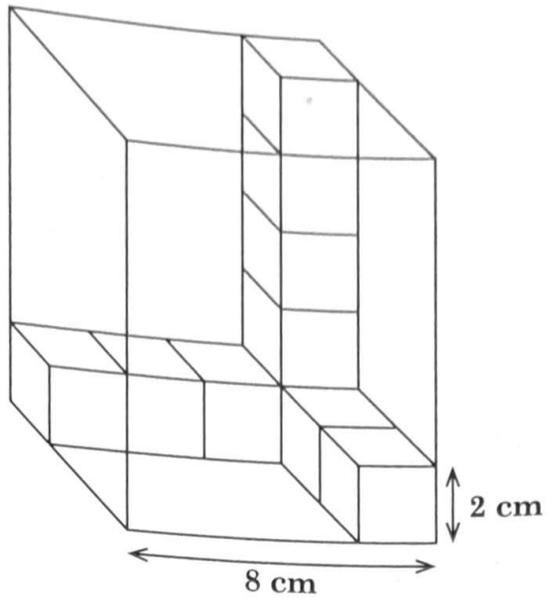
A (0)

R (8)

TOTAL (8)

43.

A box contains small solid cubes of side 2 cm stacked along 3 edges, as shown below.



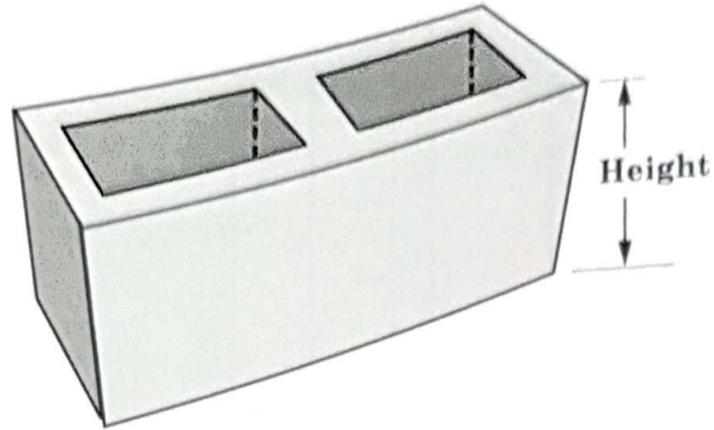
What volume of the box remains to be filled with cubes?

Answer \_\_\_\_\_  $\text{cm}^3$

**(4 marks)**

DO NOT WRITE HERE	K (0)		A (0)		R (4)		TOTAL (4)	
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44. The solid building block shown below has a uniform cross-section with 2 identical cut-outs. The cut-outs are cuboids, perpendicular to the base of the building block.



- (a) Complete the table below.

Building Block	
Number of Edges	Number of Vertices

- (b) Draw the cross-section of the building block parallel to its base.

(4 marks)

DO NOT WRITE HERE

K (0)

A (0)

R (4)

TOTAL (4)

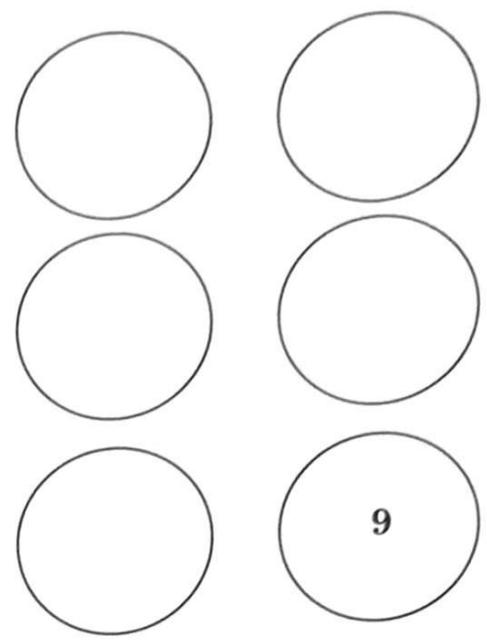
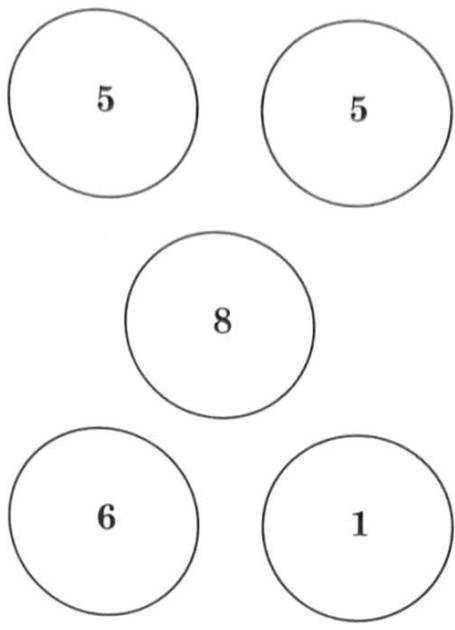
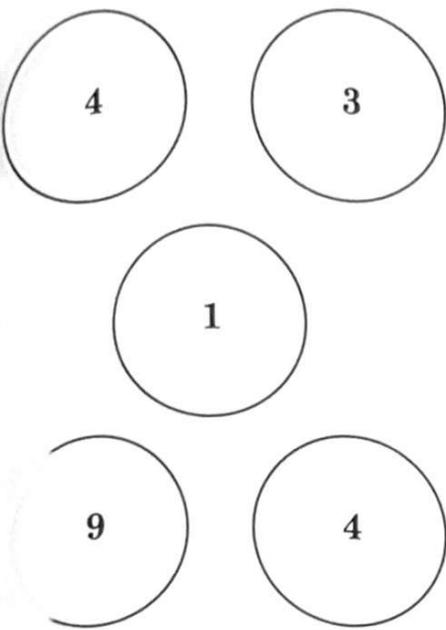
45.

Three groups are made using numbers 1 to 9. Group 1 has the same mode as Group 3. Group 2 has the same mean as Group 3. The modal value occurs at least 3 times in Group 3.

Group 1

Group 2

Group 3



Write the missing numbers in the circles in Group 3 to show **one** possible solution.

**(4 marks)**

DO NOT WRITE HERE	K (0)		A (0)		R (4)		TOTAL (4)	
-------------------	-------	--	-------	--	-------	--	-----------	--



**TRINIDAD AND TOBAGO**  
**SECONDARY ENTRANCE ASSESSMENT**  
 SPECIMEN BOOKLET

**TRINIDAD AND TOBAGO**  
**SECONDARY ENTRANCE ASSESSMENT**  
 SPECIMEN BOOKLET

**FILL IN ALL INFORMATION REQUESTED CLEARLY AND LEGIBLY.**

TEST CODE

TEST CODE

SUBJECT MATHEMATICS

SUBJECT MATHEMATICS

**Please place your label here.**

**Please place your label here.**

**READ THE FOLLOWING DIRECTIONS CAREFULLY**

- 1. This test is divided into THREE sections.**
- 2. Make sure you read the instructions before you start to work on any section.**
- 3. Write all your answers in this test booklet.**
- 4. DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.**

WRITE THE NAME OF YOUR SCHOOL BELOW:

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WRITE YOUR FULL NAME BELOW:

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DATE OF BIRTH

<i>Day</i>	<i>Month</i>	<i>Year</i>
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SEX } MALE   
 FEMALE

**DO NOT WRITE IN THIS SPACE**

FOLDER NUMBER

**DO NOT WRITE IN THIS SPACE**

FOLDER NUMBER

# Instructions for the Mathematics Test

You are **NOT** allowed to use **calculators**.

This test has **THREE** sections with a total of 45 questions.

**SECTION I** has 20 questions (Nos. 1-20).

**SECTION II** has 20 questions (Nos. 21-40).

**SECTION III** has 5 questions (Nos. 41-45).

You have 75 minutes for this test.

Answer **ALL** questions.

Read **EACH** question **CAREFULLY** before answering it.

Show **ALL** working.

Marks will be given for correct steps taken.

Work carefully but **DO NOT** spend too much time on any one question.

**DO NOT BEGIN UNTIL YOU ARE TOLD TO DO SO.**

## Section 1

1. Write in words, the number represented in the place value chart below.

Hundreds of Thousands	Tens of Thousands	Thousands	Hundreds	Tens	Ones
3	0	4	8	0	7

---

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2. Using the digits 4, 8 and 9, form the smallest number which is a multiple of 6.

Answer : \_\_\_\_\_

3. Arrange the following decimal fractions in ascending order.

0.21   0.12   1.2   1.02

Answer: \_\_\_\_\_

4. If  $\frac{1}{7}$  of a number is 20, what is the number?

Answer: \_\_\_\_\_

5. Write 9% as a decimal fraction.

Answer: \_\_\_\_\_

6.  $8^2 \div 2 = \square \div 4$

Answer: \_\_\_\_\_

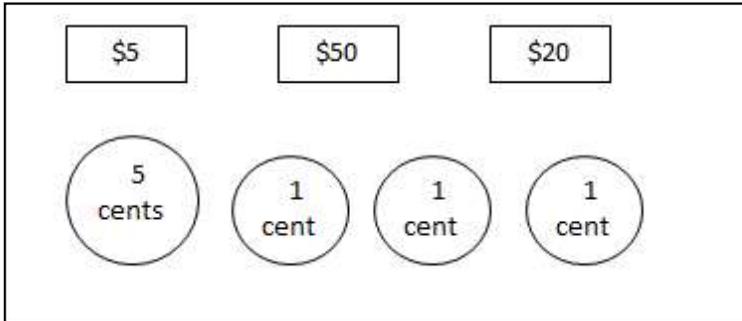
7.  $2463 + 1029 =$

Answer: \_\_\_\_\_

8. 
$$\begin{array}{r} 24 \overline{) 2952} \end{array}$$

Answer: \_\_\_\_\_

9. Write the total value of the bills and coins shown below.

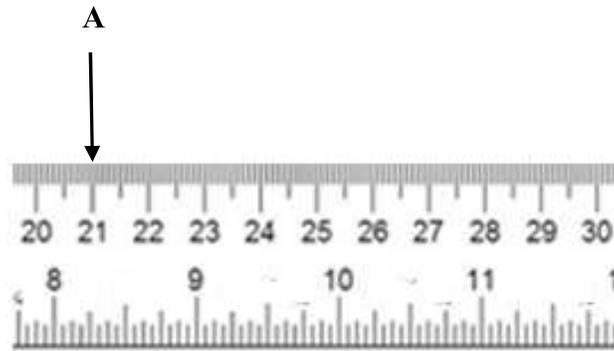


Answer: \_\_\_\_\_

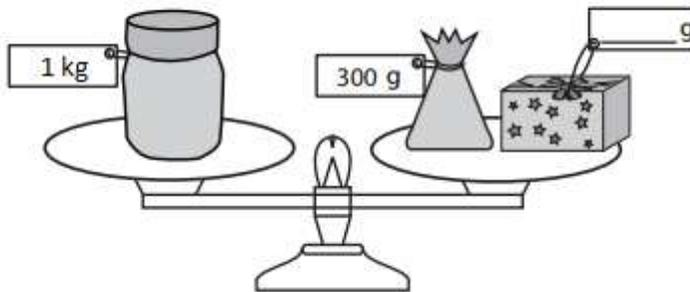
10. There are 9 pizzas to be shared equally among 4 classes. How much pizza will each class get?

Answer: \_\_\_\_\_

11. Point B is 4.6 cm to the right of Point A. Draw an arrow to show the position of Point B.



12. Calculate the mass of the gift-box.



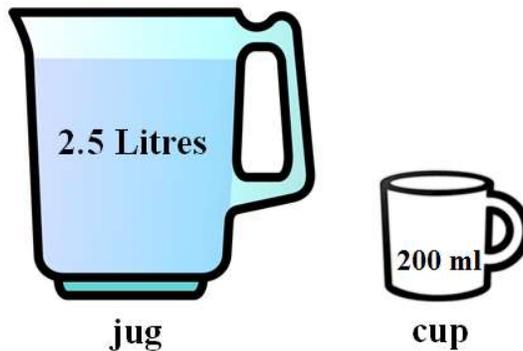
Answer: \_\_\_\_\_

13. How much time does the Route 3 bus take to complete its journey?

BUS SCHEDULE		
Route Number	Departure	Arrival
1	5:00 a.m.	6:25 a.m.
2	5:30 a.m.	7:00 a.m.
3	6:15 a.m.	8:00 a.m.

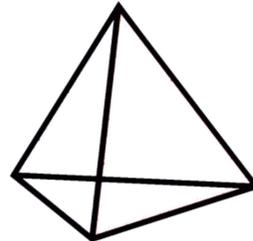
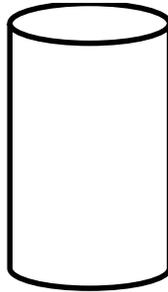
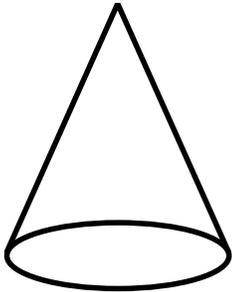
Answer: \_\_\_\_\_

14. How many 200 ml cups can be completely filled from the jug shown below?



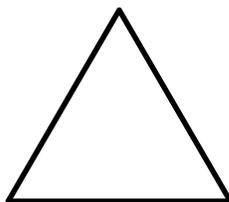
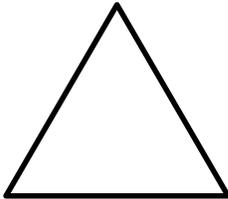
Answer: \_\_\_\_\_

15. Write the name of the solid below which has a uniform cross section.



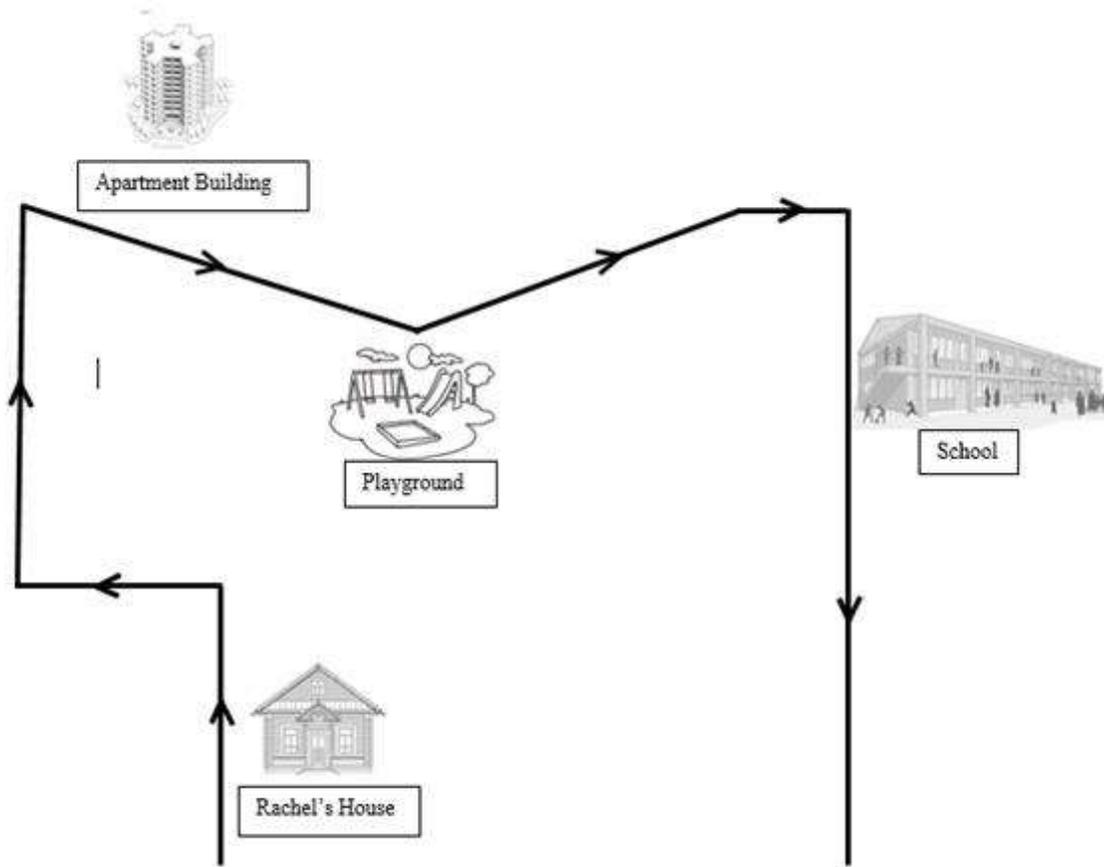
Answer: \_\_\_\_\_

16. Name the solid which can be formed using **ALL** the faces below.



Answer: \_\_\_\_\_

17. The arrows show Rachel's path from her house to school.



How many quarter turns does Rachel make to get to school?

Answer: \_\_\_\_\_

**18.** Calculate the mean of the following test scores:

42    76    87    53    64    92

Answer: \_\_\_\_\_

**19.** The table below shows the fruits eaten by students of a Standard 5 class.

Fruits	Number of Students
Pineapple	12
Mango	14
Orange	14
Banana	22
Watermelon	16

Which fruit shows the mode?

Answer: \_\_\_\_\_

20. The table below shows the number of students absent during the last week of school.

DAYS	NUMBER OF STUDENTS
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	

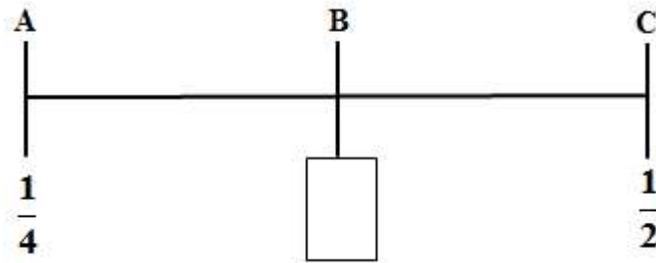
How many more students were absent on Friday than on Wednesday?

Answer: \_\_\_\_\_

## Section 2

21. On the number line below, **A** represents  $\frac{1}{4}$ , **C** represents  $\frac{1}{2}$ . **B** is in the middle of **A** and **C**. What fraction does **B** represent?

(3 marks)



Answer: \_\_\_\_\_

22. Roy has 149 marbles. Mike has 45 marbles less than Roy. How many marbles do they have altogether?

(2 marks)

Answer: \_\_\_\_\_

**23.** A hall has 22 rows of chairs. There are 18 chairs in each row. How many extra rows of chairs are needed to seat 468 persons?

**(3 marks)**

Answer: \_\_\_\_\_

**24.** At a bookstore, 9 copybooks cost \$7.20. What is the cost of 2 dozens copybooks?

**(2 marks)**

Answer: \_\_\_\_\_

25. There were 399 children at a water park. Thirty-nine girls left by midday. The number of boys was then twice the number of girls. How many girls were there before midday.

(3 marks)

Answer: \_\_\_\_\_

26. Aleem puts a total of 45 toys onto 3 shelves.  
He puts **at least 13** toys on each shelf.  
Complete the table to show one way he could put the toys onto the shelves.

(2 marks)

Shelf	Number of Toys
1	14
2	
3	
Total	45

Answer: \_\_\_\_\_

27. The original price of the bag is \$140.00. What is the price after discount?

**(2 marks)**



Answer: \_\_\_\_\_

28. Kirstin wants to buy a flute that costs \$240.

She has saved \$20 each week for 3 weeks.

How many more weeks does Kirstin need to save money if she continues to save \$20 each week?

**(3 marks)**

Answer: \_\_\_\_\_

**29.** Mr. Chin picked a number greater than 100.  
He told Gabriel to divide the number by 18.  
He told Edward to divide the number by 15.

Whose answer is greater?

Explain how you know this person's answer will always be greater.

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**(3 marks)**

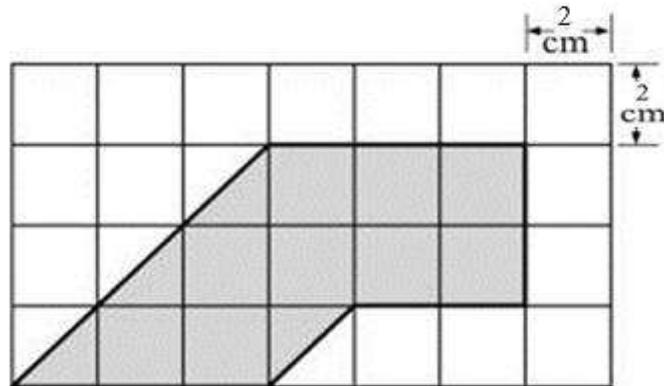
**30.** Amy borrowed \$3000 from a bank at a rate of 12% for 2 years. She repays the bank in equal monthly instalments. How much does she pay each month?

**(3 marks)**

Answer: \_\_\_\_\_

31. What is the area of the shaded figure?

(2 marks)



Answer: \_\_\_\_\_

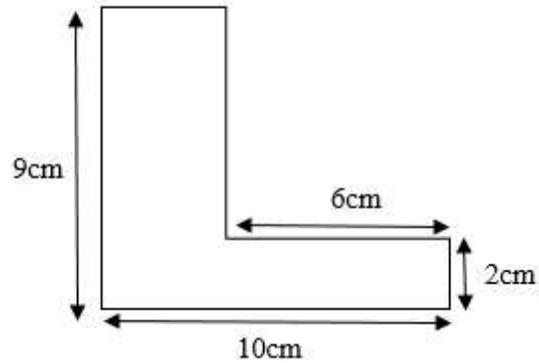
32. Andy parks his car from 9:00 a.m. to 12:45 p.m. How much money does he pay for parking?

**CAR PARK RATES**  
\$5.00 per hour or any part thereof

(2 marks)

Answer: \_\_\_\_\_

33. Calculate the perimeter of the compound shape.



( 3 marks)

Answer: \_\_\_\_\_

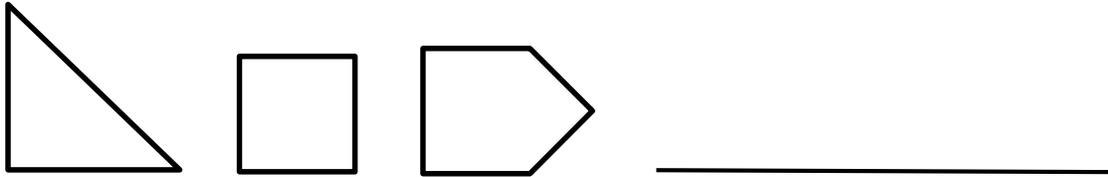
34. Mia used 8 m of ribbon to make bows. She used 36 cm to make each large bow and 12 cm to make each small bow. She made an equal number of large and small bows. If she has 32 cm remaining, how many bows did she make?

(3 marks)

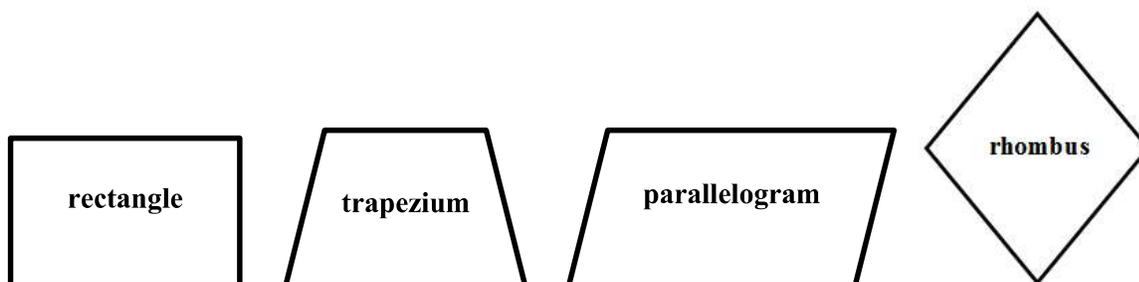
Answer: \_\_\_\_\_

35. Draw the next polygon to complete the pattern.

(2 marks)



36. Use the shapes given to complete the table below.

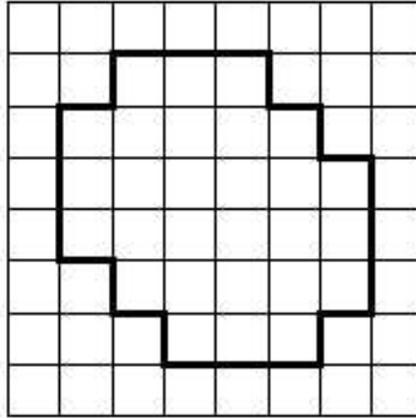


Properties	Name of shape
Only 1 pair of parallel sides	
4 equal angles	
4 equal sides	

(3 marks)

37. Draw the lines of symmetry on the figure in the grid below.

(2 marks)



38. The table shows the number of story books read by students of a Standard 5 class.

Number of storybooks	0	1	2	3	4
Number of students	5	8	15	7	2

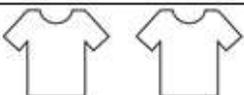
How many students read at least 2 books?

(2 marks)

Answer: \_\_\_\_\_

39. Fifty-two T-shirts were bought for a Standard 5 class using the house system colours. Complete the pictograph below.

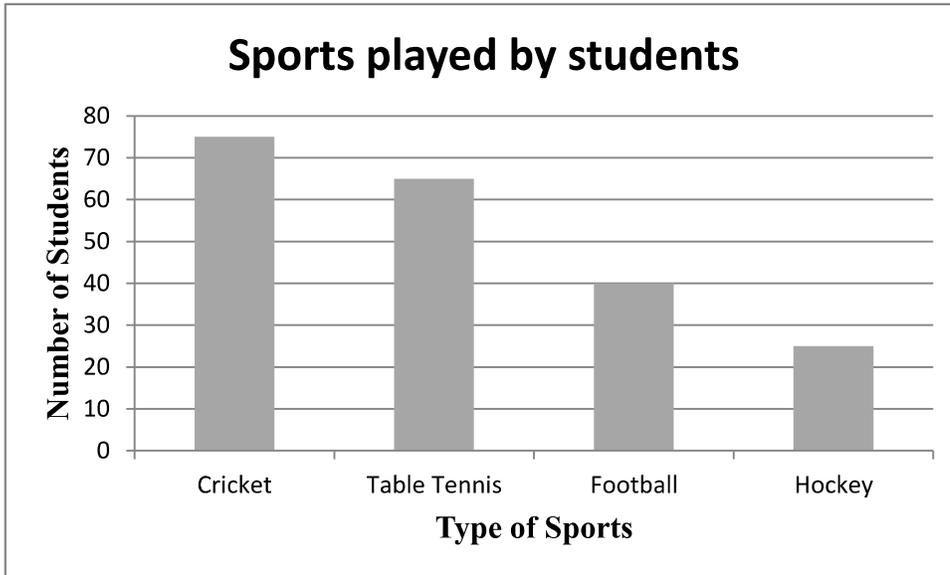
(2 marks)

House Colours	Number of Students
Red	
Blue	
Green	
Yellow	



represents 4 children

40. The bar graph shows different sports played by students.



On which sport should the principal spend the most money? Give a reason for your answer.

**(3 marks)**

Answer:

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### Section 3

41. Mrs. Pam baked some cupcakes.  $\frac{3}{7}$  of them were vanilla and the rest were chocolate. She sold  $\frac{1}{4}$  of the vanilla and  $\frac{5}{8}$  of the chocolate. She had 150 cupcakes left. How many cupcakes did she bake altogether?

**(4 marks)**

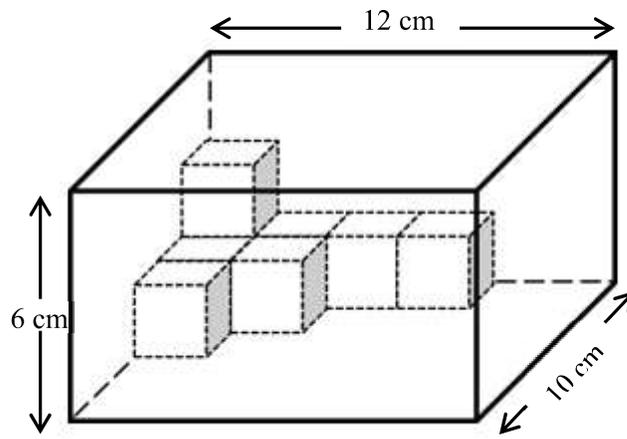
Answer: \_\_\_\_\_

42. Mary sold mangoes at \$6 each. Customers who bought 2 mangoes from her, were given 1 mango free. No customer bought more than 2 mangoes. At the end of the sale, Mary earned a total of \$504 and 30 mangoes were given free. How many customers bought only one mango?

**(4 marks)**

Answer: \_\_\_\_\_

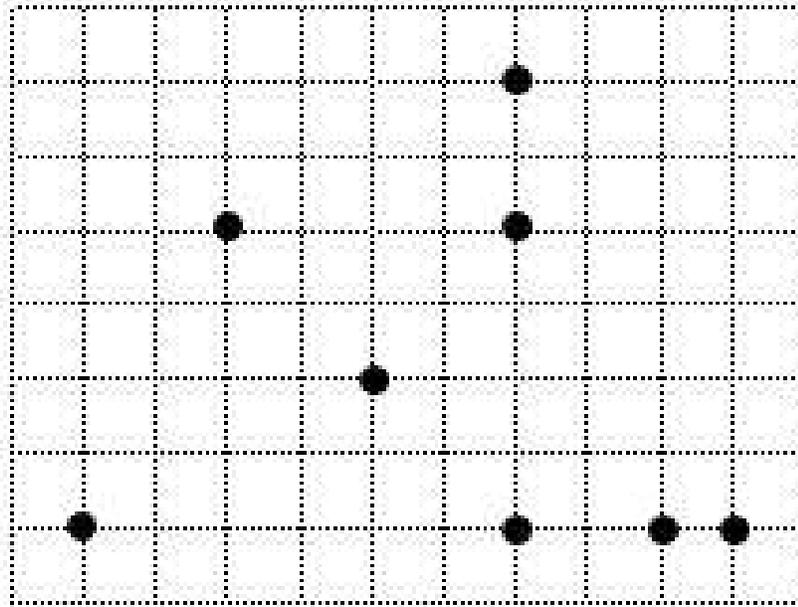
43. The box below contains some cubes each side measuring 2 cm. How many more cubes of the same size are needed to completely fill the box?



(4 marks)

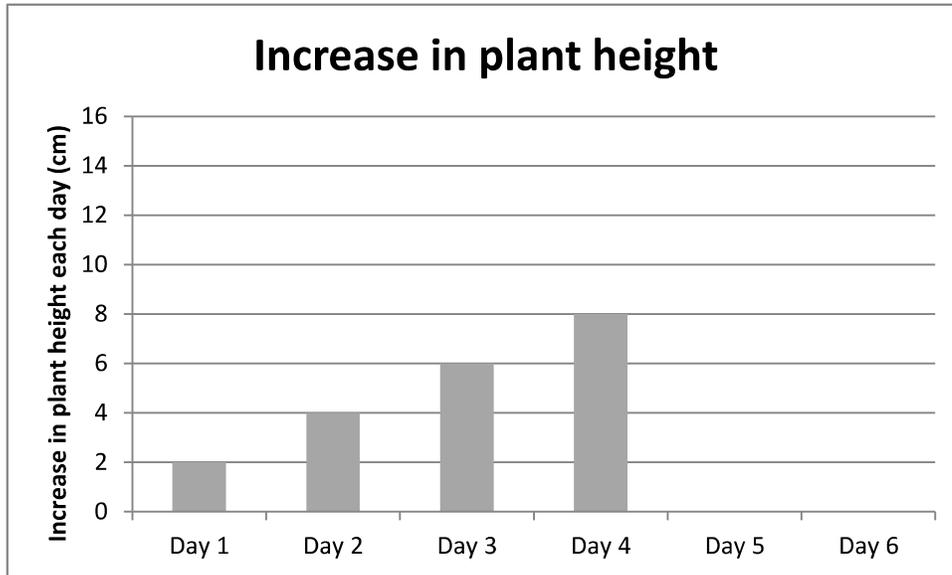
Answer: \_\_\_\_\_

44. (a) Using the grid below, join 4 dots to form a quadrilateral with one pair of parallel lines and only one angle that is smaller than a right angle. Label the shape A. **(3 marks)**



- (b) Using the grid, extend the quadrilateral formed in part (a) to make a symmetrical shape. **(1 mark)**

45. Alex was given a 12 cm plant to record its growth over 4 days. The bar graph shows the increase in plant height.



(a) What was the height of the plant on Day 4?

**(2 marks)**

Answer: \_\_\_\_\_

(b) If the increase in the plant's height is the same daily, draw the bar to show the increase in height on Day 6.

**(2 marks)**

**END OF TEST**

**IF YOU FINISH BEFORE TIME IS CALLED, YOU MAY CHECK YOUR WORK  
BEFORE HANDING IN YOUR PAPER**

SECTION I

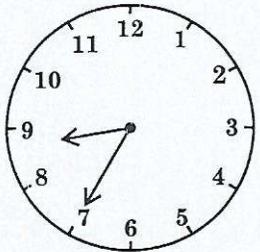
Each question is worth 1 mark. Answer ALL questions.  
Show ALL working in the Working Column.

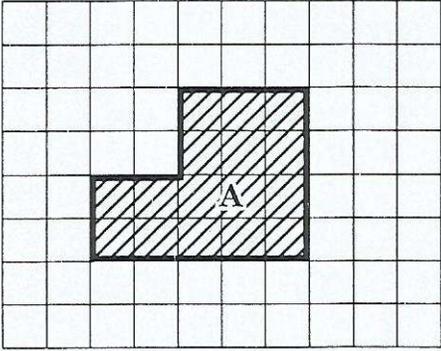
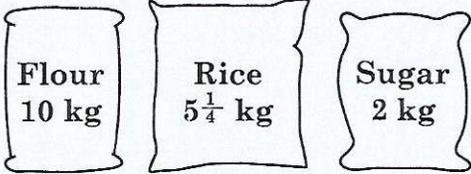
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
1.	Arrange these numbers in ASCENDING order (smallest first).  8372    8273    8237    8327  Answer _____  _____		1.		
2.	Write the numeral that represents six hundred and twelve thousand, nine hundred and three.  Answer _____		2.		
3.	Subtract 2.73 from 6.94.  Answer _____		3.		
4.	Approximate 26 387 to the nearest HUNDRED.  Answer _____		4.		

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
5.	$\sqrt{64} + 7 = 12 + \square$  Answer $\square =$ _____		5.			
6.	Change $3\frac{5}{6}$ to an improper fraction.  Answer _____		6.			
7.	Write the next term in the sequence below.  32, 16, 8, _____		7.			
8.	What is 25% of 40?  Answer _____		8.			
DO NOT WRITE HERE			KC (2)	AT (5)	PS (1)	TOTAL (8)

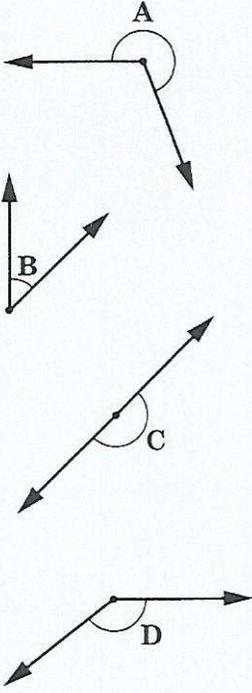
GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
9.	<p>A clock is shown below.</p>  <p>Write the time shown on the clock in digital notation.</p> <p>Answer _____</p>		9.		
10.	<p>2750 g = _____ kg</p>		10.		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
11.	<p>In the diagram below, each small square has an area of <math>9 \text{ cm}^2</math>.</p>  <p>Area  = <math>9 \text{ cm}^2</math></p> <p>Calculate the area of Shape A.</p> <p>Answer _____ <math>\text{cm}^2</math></p>		11.		
12.	<p>Mala bought the items shown below.</p>  <p>Calculate the <b>total</b> mass of the items.</p> <p>Answer _____ kg</p>		12.		

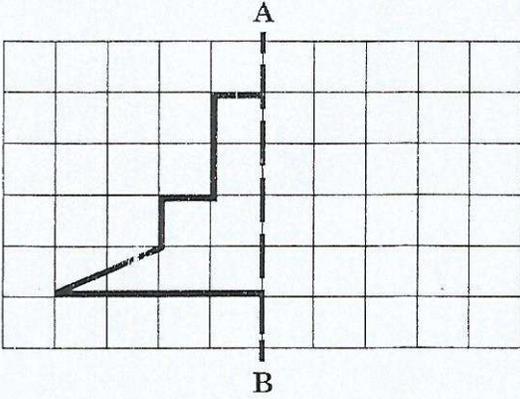
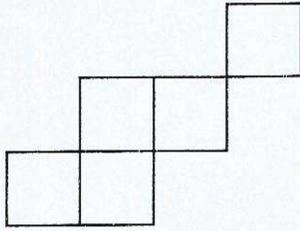
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
13.	<p>The perimeter of a square is 56 cm. What is the length of one side of the square?</p> <p>Answer _____ cm</p>		13.		
14.	<p>Akeem is making juice for a class party. For every 1 litre of water, he uses 100 ml of juice mix.</p> <p>If he uses 4 litres of water, how many ml of juice mix does he use?</p> <p>Answer _____ ml</p>		14.		
15.	<p>The lengths of a pencil and a pen are shown below.</p> <div style="text-align: center;"> <p style="margin-left: 100px;">Pencil</p> <p style="margin-left: 100px;">Pen</p> <p style="margin-left: 100px;">0 1 2 3 4 5 6 7 8 9 10 11 12 cm</p> </div> <p>What is the <b>difference</b> in length between the pencil and the pen?</p> <p>Answer _____ cm</p>		15.		
<b>DO NOT WRITE HERE</b>			<b>KC (2)</b>	<b>AT (3)</b>	<b>PS (2)</b>
			<b>TOTAL (7)</b>		

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
16.	<p>Which of the angles below is obtuse?</p>  <p>Answer _____</p>				

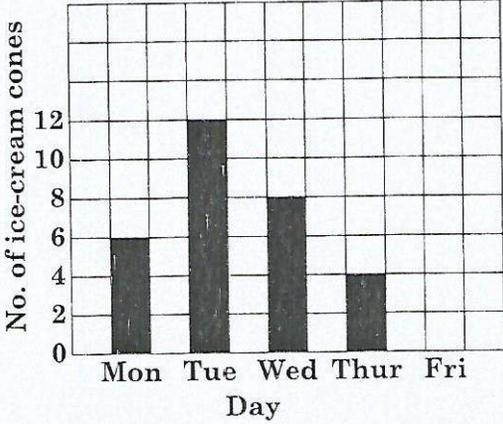
16.

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No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
17.	<p>Complete the shape below using AB as the line of symmetry.</p> 		17.			
18.	<p>Complete the drawing below to show the net of a cube.</p> 		18.			
DO NOT WRITE HERE			KC (1)	AT (2)	PS (0)	TOTAL (3)

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here										
			KC	AT	PS								
19.	<p>The table below shows the goals scored by 3 players in a football match. A total of 15 goals were scored.</p> <table border="1"><thead><tr><th>Player</th><th>Number of Goals</th></tr></thead><tbody><tr><td>Keshore</td><td>⊙ ⊙ ⊙</td></tr><tr><td>Lester</td><td>⊙ ⊙</td></tr><tr><td>Richard</td><td>⊙ ⊙ ⊙</td></tr></tbody></table> <p>How many goals does ⊙ represent?</p> <p>Answer _____ goals</p>	Player	Number of Goals	Keshore	⊙ ⊙ ⊙	Lester	⊙ ⊙	Richard	⊙ ⊙ ⊙		19.		
Player	Number of Goals												
Keshore	⊙ ⊙ ⊙												
Lester	⊙ ⊙												
Richard	⊙ ⊙ ⊙												

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here														
			KC	AT	PS												
20.	<p>The incomplete bar graph below shows the number of ice-cream cones sold in 5 days. A total of 40 ice-cream cones were sold.</p> <p>Draw the bar to show the number of ice-cream cones sold on Friday.</p> <p style="text-align: center;"><b>Ice-cream cones sold in five days</b></p>  <table border="1" style="margin-left: auto; margin-right: auto;"> <caption>Data from Bar Graph</caption> <thead> <tr> <th>Day</th> <th>No. of ice-cream cones</th> </tr> </thead> <tbody> <tr> <td>Mon</td> <td>6</td> </tr> <tr> <td>Tue</td> <td>12</td> </tr> <tr> <td>Wed</td> <td>8</td> </tr> <tr> <td>Thur</td> <td>4</td> </tr> <tr> <td>Fri</td> <td>0</td> </tr> </tbody> </table>	Day	No. of ice-cream cones	Mon	6	Tue	12	Wed	8	Thur	4	Fri	0	20.			
Day	No. of ice-cream cones																
Mon	6																
Tue	12																
Wed	8																
Thur	4																
Fri	0																
<b>DO NOT WRITE HERE</b>			<b>KC (0)</b>	<b>AT (0)</b>	<b>PS (2)</b>	<b>TOTAL (2)</b>											

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SECTION II

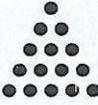
Each question is worth either 2 or 3 marks. Answer ALL questions.  
Show ALL working in the Working Column.

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
21.	$3\frac{4}{5} + 2\frac{2}{3}$  Answer _____ (2 marks)		21.		
22.	Two-thirds of a number is 48. What is three-quarters of the number?  Answer _____ (2 marks)		22.		
23.	Ryan picked a bucket of plums. He made 13 heaps. Each heap contained 6 plums and had 3 extra plums. How many plums did Ryan pick?  Answer _____ plums (2 marks)		23.		

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
24.	<p>Pictures are numbered in sequence from 1 to 152. Zack is sticking 8 pictures in order on a bristol board to form posters.</p> <p>(a) How many posters can Zack make?</p> <p>Answer _____ posters (1 mark)</p> <p>(b) On which poster will the picture numbered 60 be found?</p> <p>Answer _____ (2 marks)</p>		24.		
25.	<p>Jada is 9 years old. The sum of her parents' ages is the square of Jada's age. Her father is 11 years older than her mother.</p> <p>How old is Jada's mother?</p> <p>Answer _____ years (3 marks)</p>		25.		

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
26.	<p>A pattern is formed using dots as shown below.</p> <div style="display: flex; justify-content: space-around; align-items: center;"><div style="text-align: center;"><p>Figure 1</p></div><div style="text-align: center;"><p>Figure 2</p></div><div style="text-align: center;"><p>Figure 3</p></div><div style="text-align: center;"><p>Figure 4</p></div></div> <p>How many dots will form Figure 6?</p> <p>Answer _____ dots (2 marks)</p>				
			26.		

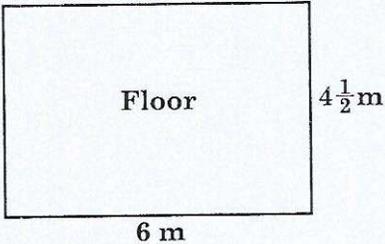
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
27.	<p>Angeni shared a bag of mangoes with her friends. She gave <math>\frac{1}{5}</math> to Jenny and <math>\frac{1}{3}</math> of the remainder to Paul.</p> <p>(a) What fraction of the mangoes did Paul get?</p> <p>Answer _____ (2 marks)</p> <p>(b) What fraction of the mangoes did Angeni give her friends?</p> <p>Answer _____ (1 mark)</p>		27.		

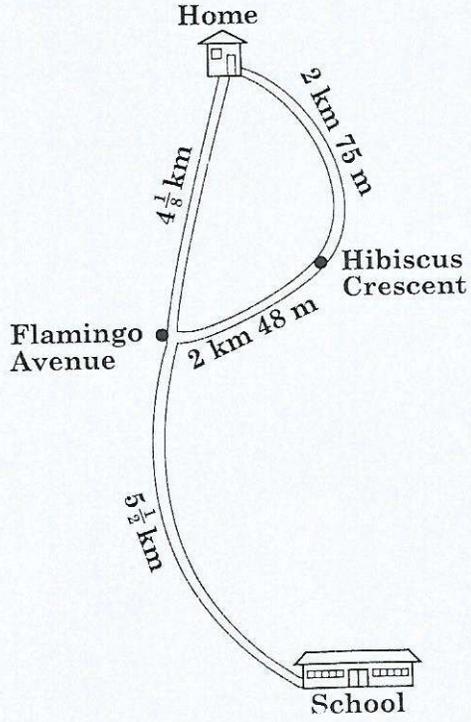
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
28.	<p>There are 300 students in an auditorium. Of these, 210 are boys.</p> <p>(a) What percentage of the students is girls?</p> <p>Answer _____ % <b>(2 marks)</b></p> <p>(b) If 60% of the students leave the auditorium, how many students are left?</p> <p>Answer _____ students <b>(1 mark)</b></p>		28.			
<b>DO NOT WRITE HERE</b>			<b>KC (2)</b>	<b>AT (12)</b>	<b>PS (6)</b>	<b>TOTAL (20)</b>

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
29.	<p>Mrs Jones borrows \$10 000 from a bank. She has to repay the loan in 7 years at a rate of 12% interest per annum.</p> <p>(a) Calculate the simple interest Mrs Jones must pay.</p> <p>Answer \$ _____ (2 marks)</p> <p>(b) What is the <b>total</b> amount of money that Mrs Jones must repay?</p> <p>Answer \$ _____ (1 mark)</p>		29.		

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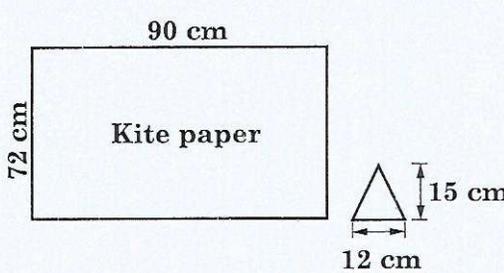
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
30.	<p>The floor shown below is to be carpeted.</p> <div style="text-align: center;">  <p style="margin-left: 100px;">6 m</p> <p style="margin-left: 150px;"><math>4\frac{1}{2}</math> m</p> </div> <p>(a) Calculate the area of the floor.</p> <p>Answer _____ m<sup>2</sup> (1 mark)</p> <p>(b) If the carpet is sold at \$20 per m<sup>2</sup>, calculate the cost of the carpet needed to cover the floor completely.</p> <p>Answer \$ _____ (1 mark)</p>		30.		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
31.	<p>The routes from Aaron's home to his school are shown below.</p>  <p>What is the SHORTEST distance from Aaron's home to his school?</p> <p>Answer _____ km _____ m (3 marks)</p>				
			31.		

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here						
			KC	AT	PS				
32.	<p>A phone company's rates for prepaid calls are shown below.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td><b>Day Rate</b></td> <td>\$0.40 per minute</td> </tr> <tr> <td><b>Night Rate</b></td> <td>\$0.25 per minute</td> </tr> </table> <p>Cindy spoke to her friend for 20 minutes during the day and 50 minutes in the night.</p> <p>What is the <b>total</b> cost of the calls?</p> <p>Answer \$ _____ (2 marks)</p>	<b>Day Rate</b>	\$0.40 per minute	<b>Night Rate</b>	\$0.25 per minute		32.		
<b>Day Rate</b>	\$0.40 per minute								
<b>Night Rate</b>	\$0.25 per minute								
33.	<p>A container and a bottle are shown below.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p><math>2\frac{3}{4}</math> litres</p> </div> <div style="text-align: center;">  <p>250 ml</p> </div> </div> <p>Jamie is filling the container with water using the bottle.</p> <p>How many bottles of water does she need to fill the container completely?</p> <p>Answer _____ bottles (2 marks)</p>		33.						

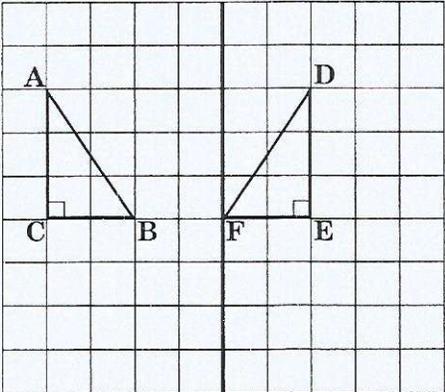
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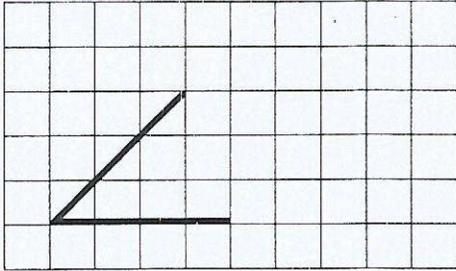
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
34.	<p>The diagram below shows a piece of kite paper that is to be cut into triangular flags. Each flag has a base of 15 cm and a height of 12 cm.</p>  <p>(a) What is the <b>greatest</b> number of flags that can be made from the sheet of kite paper?</p> <p>Answer _____ flags <b>(2 marks)</b></p> <p>(b) Andrew wants to make 144 flags. How many sheets of kite paper will he need?</p> <p>Answer _____ sheets <b>(1 mark)</b></p>				
			34.		

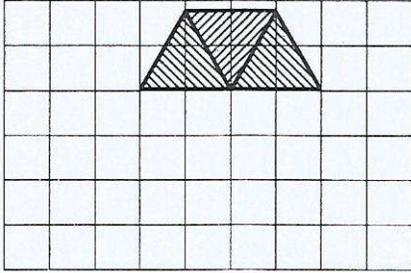
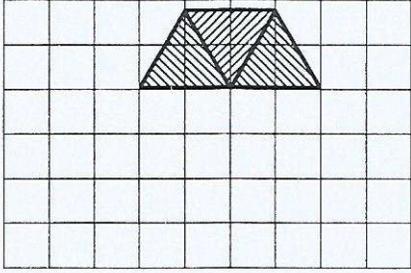
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
35.	<p>Wendy has 10 kg of flour. She uses 2 kg 675 g to make a batch of bread and 1 kg 970 g to make a batch of cakes.</p> <p>(a) How much flour does Wendy use altogether?</p> <p>Answer _____ kg _____ g (1 mark)</p> <p>(b) How much flour does she have remaining?</p> <p>Answer _____ kg _____ g (1 mark)</p> <p>(c) How many batches of cake can Wendy make with the remaining flour?</p> <p>Answer _____ (1 mark)</p>		35.		
<b>DO NOT WRITE HERE</b>			<b>KC (4)</b>	<b>AT (10)</b>	<b>PS (4)</b>
			<b>TOTAL (18)</b>		

GO ON TO THE NEXT PAGE



No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>			
			KC	AT	PS	
37.	<p>The diagram below shows triangle ABC and its image after two movements.</p>  <p style="text-align: center;">↑ Mirror line</p> <p>(a) The first movement of triangle ABC is a flip about the mirror line.</p> <p>Describe fully the second movement.</p> <p>Answer _____</p> <p style="text-align: right;">(2 marks)</p> <p>(b) Triangle DEF makes a quarter turn about Point F in a clockwise direction. On the diagram, mark the new position of E.</p> <p style="text-align: right;">(1 mark)</p>		37.			

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
38.	<p>There is an incomplete quadrilateral on the grid below.</p>  <p>The quadrilateral has only one pair of parallel lines.</p> <p>Complete the shape. <b>(2 marks)</b></p>		38.		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
39.	<p>Tia has 3 similar triangles. Each triangle has three equal sides.</p> <p>(a) Name the type of triangle that Tia has.</p> <p>Answer _____ <b>(1 mark)</b></p> <p>(b) Tia joins the 3 triangles to form the shape shown below.</p>  <p>Draw the line of symmetry on the shape. <b>(1 mark)</b></p> <p>(c) Tia joins 3 other similar triangles to the shape to form a regular six-sided polygon. Complete the shape below.</p>  <p align="right"><b>(1 mark)</b></p>				
			38.		
<b>DO NOT WRITE HERE</b>		<b>KC (5)</b>	<b>AT (3)</b>	<b>PS (2)</b>	<b>TOTAL (10)</b>

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>																		
40.	<p>The tally chart below shows the votes obtained by 4 students for the post of class prefect.</p> <table border="1" style="margin: 10px auto; border-collapse: collapse;"> <thead> <tr> <th style="width:20%;">Student</th> <th style="width:30%;">Tally</th> <th style="width:20%;">Frequency</th> </tr> </thead> <tbody> <tr> <td>Karen</td> <td>      </td> <td align="center">6</td> </tr> <tr> <td>Atiba</td> <td>    </td> <td align="center">4</td> </tr> <tr> <td>Satesh</td> <td></td> <td></td> </tr> <tr> <td>Martin</td> <td>           </td> <td align="center">11</td> </tr> </tbody> </table> <p>If 28 students voted, complete the tally and frequency for Satesh.</p> <p align="right"><b>(2 marks)</b></p>	Student	Tally	Frequency	Karen		6	Atiba		4	Satesh			Martin		11		40.	KC	AT	PS
		Student	Tally	Frequency																	
Karen		6																			
Atiba		4																			
Satesh																					
Martin		11																			
<b>DO NOT WRITE HERE</b>			<b>KC (1)</b>	<b>AT (1)</b>	<b>PS (0)</b>	<b>TOTAL (2)</b>															

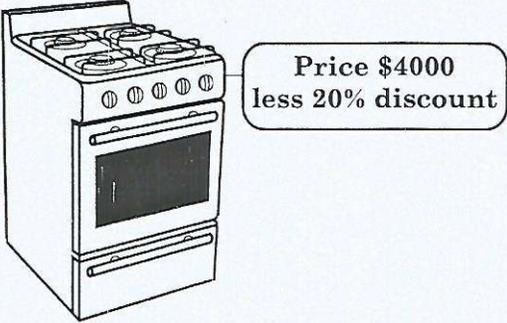
SECTION III

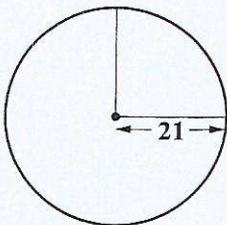
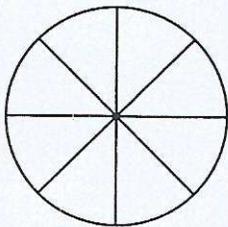
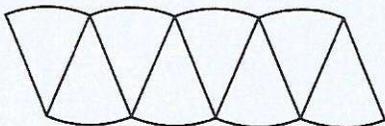
Each question is worth 5 marks. Answer ALL questions.  
Show ALL working in the Working Column.

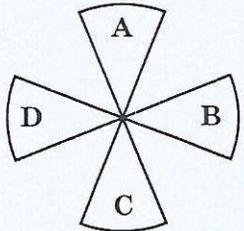
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here														
			KC	AT	PS												
41.	<p>Five runners competed in a race on sports day. The table below shows the times recorded for 4 runners.</p> <table border="1"><thead><tr><th>Runner</th><th>Time (seconds)</th></tr></thead><tbody><tr><td>Pete</td><td>16.5</td></tr><tr><td>Mark</td><td>17.8</td></tr><tr><td>Toro</td><td>16.9</td></tr><tr><td>Sunil</td><td>16.8</td></tr><tr><td>Javed</td><td></td></tr></tbody></table> <p>(a) Calculate the average running time for the FOUR given runners.</p> <p>Answer _____ seconds (2 marks)</p> <p>(b) Javed won the race by 0.3 seconds. What was his winning time?</p> <p>Answer _____ seconds (1 mark)</p> <p>(c) The winning time in last year's race was 16.3 seconds. What is the least amount of time by which Mark must improve to beat last year's winning time?</p> <p>Answer _____ (2 marks)</p>	Runner	Time (seconds)	Pete	16.5	Mark	17.8	Toro	16.9	Sunil	16.8	Javed					
Runner	Time (seconds)																
Pete	16.5																
Mark	17.8																
Toro	16.9																
Sunil	16.8																
Javed																	
			41.														

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
42.	<p>There are 450 mangoes and oranges in a fruit stall. There are twice as many mangoes as there are oranges.</p> <p>(a) How many oranges are in the stall?</p> <p>Answer _____ oranges (1 mark)</p> <p>(b) <math>\frac{2}{3}</math> of the oranges are green and the others are ripe.</p> <p>How many oranges are ripe?</p> <p>Answer _____ oranges (2 marks)</p> <p>(c) A box can hold 24 mangoes. How many boxes are needed to pack ALL the mangoes?</p> <p>Answer _____ boxes (2 marks)</p>		42.			
<b>DO NOT WRITE HERE</b>			<b>KC (2)</b>	<b>AT (5)</b>	<b>PS (3)</b>	<b>TOTAL (10)</b>

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
43.	<p>Mrs Brown bought the stove shown below at a discount of 20%.</p>  <p>(a) Calculate the discount in dollars.</p> <p>Answer \$ _____ (1 mark)</p> <p>(b) What was the cost of the stove after the discount?</p> <p>Answer \$ _____ (1 mark)</p> <p>(c) Mrs Brown paid VAT at <math>12\frac{1}{2}\%</math> on the discounted price.</p> <p>How much VAT did she pay?</p> <p>Answer \$ _____ (2 marks)</p> <p>(d) Calculate the <b>final</b> price that Mrs Brown paid for the stove.</p> <p>Answer \$ _____ (1 mark)</p>				
			43.		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
44.	<p>A circle of radius 21 cm is shown below.</p>  <p><math>\pi = \frac{22}{7}</math></p> <p>(a) Calculate the circumference of the circle.</p> <p>Answer _____ cm (2 marks)</p> <p>(b) The circle is cut into 8 equal parts as shown below.</p>  <p>The parts are used to form the shape below.</p>  <p>Calculate the perimeter of the shape.</p> <p>Answer _____ cm (3 marks)</p>					
			44.			
<b>DO NOT WRITE HERE</b>			<b>KC (4)</b>	<b>AT (3)</b>	<b>PS (3)</b>	<b>TOTAL (10)</b>

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
45.	<p>The diagram below shows the blades of a fan labelled A, B, C and D.</p>  <p>(a) What fraction of a turn does Blade A make if it turns in a clockwise direction to the position of Blade D?</p> <p>Answer _____ (1 mark)</p> <p>(b) How many <math>\frac{1}{4}</math> turns does Blade B make if it turns in a clockwise direction to the position of Blade D?</p> <p>Answer _____ (1 mark)</p>				

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
	<p>(c) Through how many degrees does Blade C turn in an anticlockwise direction to the position of Blade B?</p> <p>Answer _____ (1 mark)</p> <p>(d) If Blade B travels 200 cm in 1 whole turn, how many <math>\frac{1}{2}</math> turns will it take to make 300 cm?</p> <p>Answer _____ (2 marks)</p>		45.			
<b>DO NOT WRITE HERE</b>			<b>KC (1)</b>	<b>AT (3)</b>	<b>PS (1)</b>	<b>TOTAL (5)</b>

No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>																								
46.	<p>The table below shows the marks obtained by 2 students in 5 subjects.</p> <table border="1" data-bbox="334 541 837 1163"> <thead> <tr> <th>SUBJECT</th> <th>YVETTE</th> <th>BARRY</th> </tr> </thead> <tbody> <tr> <td>Maths</td> <td>75</td> <td>63</td> </tr> <tr> <td>Language Arts</td> <td>60</td> <td>74</td> </tr> <tr> <td>Music</td> <td>70</td> <td></td> </tr> <tr> <td>Art</td> <td>80</td> <td>47</td> </tr> <tr> <td>Social Studies</td> <td>55</td> <td>25</td> </tr> <tr> <td><b>Total</b></td> <td></td> <td><b>240</b></td> </tr> </tbody> </table> <p>(a) Calculate the mean mark obtained by Yvette.</p> <p>Answer _____ <b>(1 mark)</b></p> <p>(b) How many marks did Barry score in Music?</p> <p>Answer _____ <b>(1 mark)</b></p>	SUBJECT	YVETTE	BARRY	Maths	75	63	Language Arts	60	74	Music	70		Art	80	47	Social Studies	55	25	<b>Total</b>		<b>240</b>			KC	AT	PS
SUBJECT	YVETTE	BARRY																									
Maths	75	63																									
Language Arts	60	74																									
Music	70																										
Art	80	47																									
Social Studies	55	25																									
<b>Total</b>		<b>240</b>																									

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
	<p>(c) A mean of 55 is required to get a Grade C. How many MORE marks did Barry need in order to get a Grade C?</p> <p>Answer _____ (2 marks)</p> <p>(d) Yvette needed 20 MORE marks to get a Grade B. What is the least amount of marks required to get a Grade B?</p> <p>Answer _____ (1 mark)</p>		46.			
DO NOT WRITE HERE			KC (1)	AT (3)	PS (1)	TOTAL (5)

END OF TEST

IF YOU FINISH BEFORE TIME IS CALLED, CHECK YOUR WORK ON THIS TEST.



TRINIDAD AND TOBAGO  
SECONDARY ENTRANCE ASSESSMENT

TRINIDAD AND TOBAGO  
SECONDARY ENTRANCE ASSESSMENT

ANSWER BOOKLET

ANSWER BOOKLET

FILL IN ALL THE INFORMATION REQUESTED CLEARLY AND LEGIBLY.

TEST CODE 

0	4	2	3	4	0	1	1
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TEST CODE 

0	4	2	3	4	0	1	1
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SUBJECT MATHEMATICS 2015

SUBJECT MATHEMATICS 2015

Please place your label here.

Please place your label here.

**READ THE FOLLOWING  
DIRECTIONS CAREFULLY:**

1. This test is divided into **THREE** sections.
2. Make sure you read the instructions before you start to work on any section.
3. Write all your answers in this test booklet.
4. **DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.**

WRITE THE NAME OF YOUR SCHOOL BELOW:


WRITE YOUR FULL NAME BELOW:

--

DATE OF BIRTH

<i>Day</i>	<i>Month</i>	<i>Year</i>

SEX { MALE   
} FEMALE

DO NOT WRITE IN THIS SPACE

FOLDER NUMBER

DO NOT WRITE IN THIS SPACE

FOLDER NUMBER



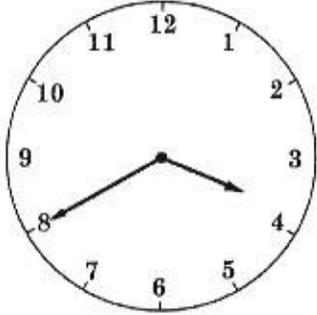
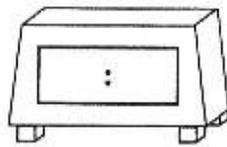
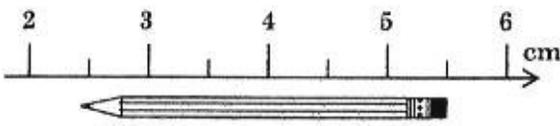
<b>Measurement &amp; Money</b>	4	9-15		
	5	29-35		
	6	43-44		
<b>Geometry</b>	7	16-18		
	8	36-39		
	9	45		
<b>Statistics</b>	10	19-20		
	11	40		
	12	46		
<b>TOTAL</b>				

SECTION I

Each question is worth 1 mark. Answer ALL questions.  
Show ALL working in the Working Column.

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
1.	$\begin{array}{r} 7469 \\ - 2361 \\ \hline \end{array}$ <p>Answer _____</p>		1.		
2.	<p>Write in figures:</p> <p>Two hundred and five thousand and seventy-three.</p> <p>Answer _____</p>		2.		
3.	<p>State the VALUE of the <u>underlined</u> digit in the following numeral.</p> <p>7<u>5</u>3 291</p> <p>Answer _____</p>		3.		
4.	<p>Write the number in the box that CORRECTLY completes the following sentence.</p> $\frac{1}{12} \times \boxed{\phantom{000}} = 20$ <p>Answer _____</p>		4.		

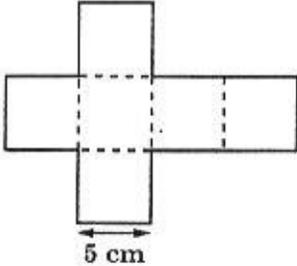
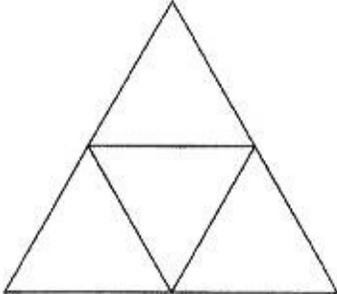
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
5.	<p>Write the following numbers in descending order (starting with the GREATEST in value).</p> <p>5173, 5731, 5317</p> <p>Answer _____</p>		5.			
6.	<p>Write <math>\frac{39}{4}</math> as a mixed number.</p> <p>Answer _____</p>		6.			
7.	<p>A chocolate factory produces 250 boxes of chocolates in a day. Each box contains 30 chocolate bars. How many chocolate bars are produced in a day?</p> <p>Answer _____ bars</p>		7.			
8.	<p>Complete the following number sequence.</p> <p>4, 9, 15, 22, 30, 39, _____</p> <p>Answer _____</p>		8.			
DO NOT WRITE HERE			KC (2)	AT (4)	PS (2)	TOTAL (8)

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
9.	<p>Write the time shown on Clock A, in digital notation, on Clock B.</p> <p style="text-align: center;">Clock A</p>  <p style="text-align: center;">Clock B</p> <p>Answer </p>		9.		
10.	<p>Convert 2.369 kilometres to metres.</p> <p>Answer _____ metres</p>		10.		
11.	<p>What is the length of the pencil to the NEAREST centimetre?</p>  <p>Answer _____ cm</p>		11.		

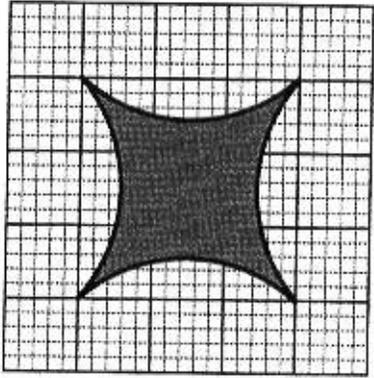
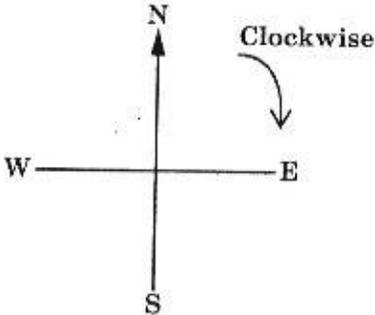
GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here														
			KC	AT	PS												
12.	<p>Chad buys a bag of oranges for \$9.50. How much change should he get if he pays with a \$20.00 bill?</p> <p>Answer \$ _____</p>		12.														
13.	<table style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td style="text-align: center;"><b>kg</b></td> <td style="text-align: center;"><b>g</b></td> </tr> <tr> <td></td> <td style="text-align: center;">6</td> <td style="text-align: center;">763</td> </tr> <tr> <td style="text-align: right;">+</td> <td style="text-align: center;">3</td> <td style="text-align: center;">286</td> </tr> <tr> <td></td> <td style="text-align: center;">_____</td> <td></td> </tr> </table> <p>Answer _____</p>		<b>kg</b>	<b>g</b>		6	763	+	3	286		_____			13.		
	<b>kg</b>	<b>g</b>															
	6	763															
+	3	286															
	_____																
14.	<p>A laptop was advertised as shown below.</p> <div style="display: flex; align-items: center; justify-content: center;">  <p><b>\$4500 plus 15% VAT</b></p> </div> <p>Calculate the VAT to be paid.</p> <p>Answer \$ _____</p>		14.														

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
15.	<p>The following net is for a cube with edges of 5 cm. Calculate the perimeter of this net.</p>  <p>Answer _____ cm</p>		15.			
<b>DO NOT WRITE HERE</b>			<b>KC (2)</b>	<b>AT (4)</b>	<b>PS (1)</b>	<b>TOTAL (7)</b>
16.	<p>What is the name of the solid shape that can be made with the following net?</p>  <p>Answer _____</p>		16.			

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
17.	<p>How many lines of symmetry are there in the following shaded shape?</p>  <p>Answer _____ lines</p>		17.			
18.	<p>Tyson is facing West and makes THREE <math>\frac{1}{4}</math>-turns in a clockwise direction.</p>  <p>In which direction will Tyson now be facing?</p> <p>Answer _____</p>		18.			
DO NOT WRITE HERE			KC (1)	AT (1)	PS (1)	TOTAL (3)

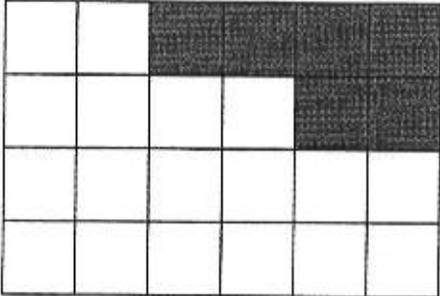
No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>																	
19.	<p>Altogether, four pupils own 39 marbles.</p> <p>Complete the following chart to show the tally for Tom's marbles.</p> <p style="text-align: center;"><b>Marbles Owned</b></p> <table border="1" data-bbox="240 688 792 1066"> <thead> <tr> <th>Pupil</th> <th>Number of Marbles</th> <th>Tally</th> </tr> </thead> <tbody> <tr> <td>Raj</td> <td>8</td> <td>    </td> </tr> <tr> <td>Tom</td> <td></td> <td></td> </tr> <tr> <td>Carla</td> <td>4</td> <td>    </td> </tr> <tr> <td>Sita</td> <td>16</td> <td>    </td> </tr> </tbody> </table>	Pupil	Number of Marbles	Tally	Raj	8		Tom			Carla	4		Sita	16			KC	AT	PS
		Pupil	Number of Marbles	Tally																
Raj	8																			
Tom																				
Carla	4																			
Sita	16																			
19.																				

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
20.	<p>The following bar graph represents some TV shows viewed by the pupils in a Standard 3 class.</p> <p style="text-align: center;"><b>Popular TV Shows</b></p> <p>How many <b>more</b> pupils need to view Smallville for it to be as popular as Goodluck Charlie?</p> <p>Answer _____ pupils</p>					
<b>DO NOT WRITE HERE</b>			<b>KC (0)</b>	<b>AT (1)</b>	<b>PS (1)</b>	<b>TOTAL (2)</b>

GO ON TO THE NEXT PAGE

SECTION II

Each question is worth either 2 or 3 marks. Answer ALL questions.  
Show ALL working in the Working Column.

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
21.	$2\frac{7}{8} + 4\frac{1}{3}$  Answer _____ (2 marks)		21.		
22.	Maria has 413 stamps. Her brother has 49 stamps fewer than she has. How many stamps do they have <b>ALTOGETHER</b> ?  Answer _____ stamps (2 marks)		22.		
23.	The following diagram shows a wall that is to be covered with identical square tiles. The shaded area is already tiled.    Express the area of the tiled portion as a <b>decimal fraction</b> of the area of the <b>ENTIRE</b> wall.  Answer _____ (2 marks)		23.		

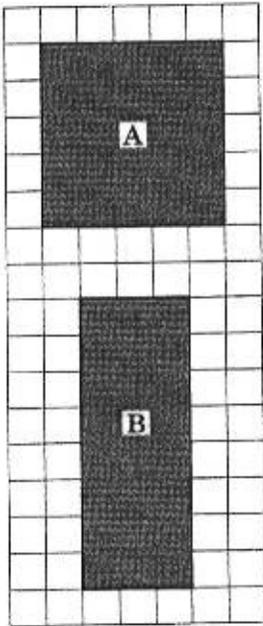
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No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
24.	<p>Express as a SINGLE decimal fraction</p> $\frac{5}{100} + \frac{3}{10}$ <p>Answer _____ (2 marks)</p>		24.		
25.	<p>Jerry has 40 stickers that are either red, yellow or blue in colour. There are 24 red ones, and equal numbers of blue and yellow.</p> <p>Calculate the percentage of his stickers that are yellow.</p> <p>Answer _____ % (3 marks)</p>		25.		
26.	<p>Sasha used 55% of her savings to buy a game. She has \$135 <b>remaining</b>. How much was her savings before buying the game?</p> <p>Answer \$ _____ (3 marks)</p>		26.		

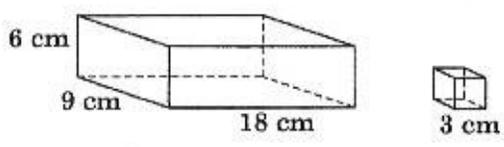
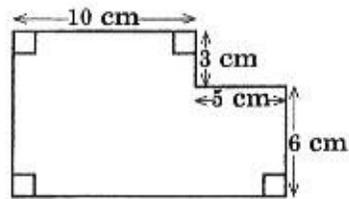
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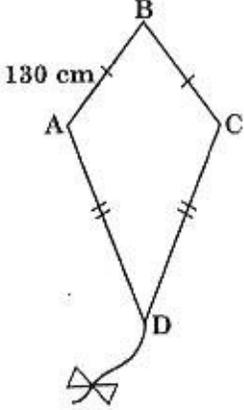
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
27.	<p>Brian and his father went fishing on the weekend (Saturday and Sunday). They caught 120 fishes on Saturday. Their catch decreased by 25% on Sunday.</p> <p>(a) Calculate the number of fishes that they caught on Sunday?</p> <p>Answer _____ fishes <b>(2 marks)</b></p> <p>(b) How many fishes did they catch <b>ALTOGETHER</b> on the weekend?</p> <p>Answer _____ fishes <b>(1 mark)</b></p>		27.			
28.	<p>(a) Mummy cuts 8 pizzas into SIXTHS. Kori gets <math>\frac{1}{3}</math> of ONE pizza. How many SIXTHS of pizza does he get?</p> <p>Answer _____ sixths <b>(1 mark)</b></p> <p>(b) How many SIXTHS of pizza does mummy have remaining?</p> <p>Answer _____ sixths <b>(2 marks)</b></p>		28.			
<b>DO NOT WRITE HERE</b>			<b>KC (5)</b>	<b>AT (10)</b>	<b>PS (5)</b>	<b>TOTAL (20)</b>

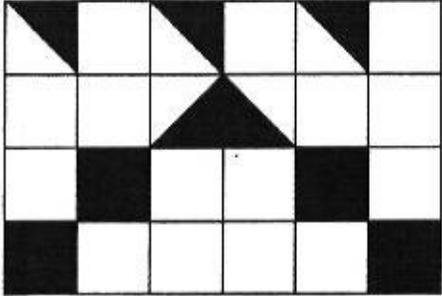
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No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
29.	<p>The following diagram represents the floor space of the library (A) and the computer room (B) at Central Government School. The diagram consists of identical squares.</p>  <p>A - Library    B - Computer Room</p> <p>(a) What is the MOST suitable unit for measuring the area of the floor?</p> <p>Answer _____ (1 mark)</p> <p>(b) Each floor space has to be covered with carpet. Which room has the SMALLER floor space to be covered?</p> <p>Answer _____ (1 mark)</p>				

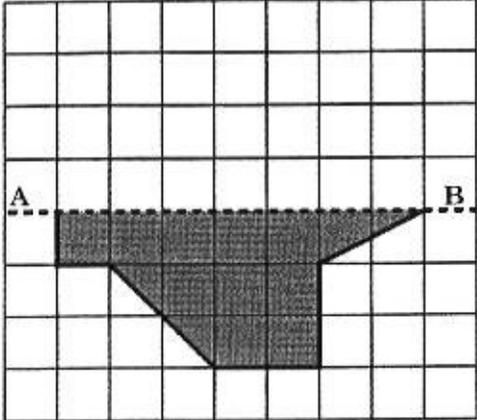
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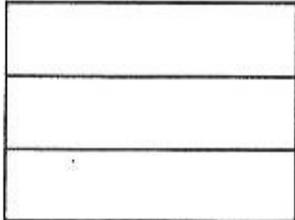
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
29.	<p>(c) Which room has the floor with the SMALLER perimeter?</p> <p>Answer _____ (1 mark)</p>		29.		
30.	<p>The following diagram shows a rectangular box with dimensions 6 cm × 9 cm × 18 cm and a small cube with sides of 3 cm.</p>  <p>How many small cubes are needed to completely fill the rectangular box?</p> <p>Answer _____ cubes (2 marks)</p>		30.		
31.	<p>Calculate the area of the following shape.</p>  <p>Answer _____ cm<sup>2</sup> (2 marks)</p>		31.		

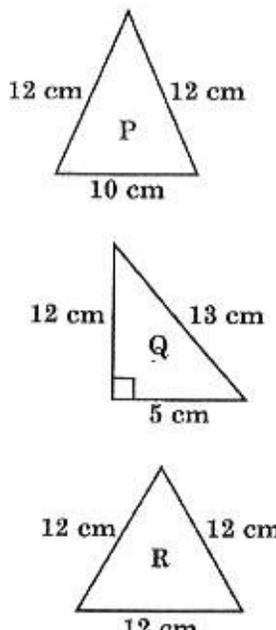
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
32.	<p>Mrs Chin got a loan of \$6000 from a credit union. She took 3 years to repay the loan at the simple interest rate of 5% per annum. Calculate the TOTAL amount of money that Mrs Chin repaid.</p> <p>Answer \$ _____ (3 marks)</p>		32.		
33.	<p>In the following shape, ABCD, the sides AB and BC are both equal to 130 cm, and sides AD and CD are equal in length. The perimeter of the shape is 660 cm.</p>  <p>Calculate the length of the side CD.</p> <p>Answer CD = _____ cm (2 marks)</p>		33.		

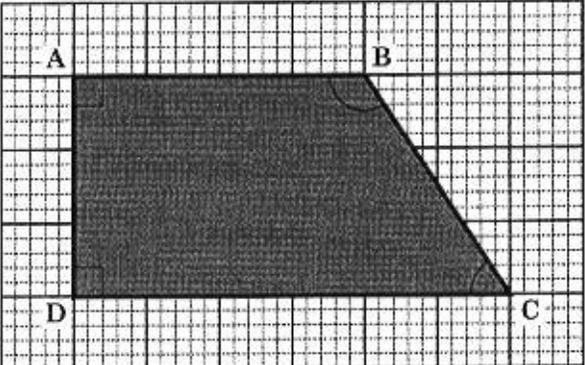
No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>		
			KC	AT	PS
34.	<p>The side of each square on the following grid is 3 cm.</p>  <p>Complete EACH of the following statements.</p> <p>(a) The area of ONE square on the grid is _____ cm<sup>2</sup> (1 mark)</p> <p>(b) The TOTAL shaded area on the grid is _____ cm<sup>2</sup> (2 marks)</p>		34.		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here																																									
			KC	AT	PS																																							
35.	<p>Mr Lewis needs to buy some materials. He receives the following cost statements from two hardware stores, A and B, respectively.</p> <p style="text-align: center;"><b>HARDWARE STORE A</b></p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Material</th> <th>Unit Cost</th> <th>Price</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>Bags of cement</td> <td>\$30.00</td> <td>\$120.00</td> </tr> <tr> <td>1</td> <td>Load of sand</td> <td>\$700.00</td> <td>\$700.00</td> </tr> <tr> <td>50</td> <td>Bricks</td> <td>\$5.00</td> <td>_____</td> </tr> <tr> <td></td> <td></td> <td>Total</td> <td>_____</td> </tr> </tbody> </table> <p style="text-align: center; border: 1px solid black; padding: 5px;"><b>Transportation \$80.00</b></p> <p style="text-align: center;"><b>HARDWARE STORE B</b></p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Material</th> <th>Unit Cost</th> <th>Price</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>Bags of cement</td> <td>\$35.00</td> <td>\$140.00</td> </tr> <tr> <td>1</td> <td>Load of sand</td> <td>\$700.00</td> <td>\$700.00</td> </tr> <tr> <td>50</td> <td>Bricks</td> <td>\$6.50</td> <td>\$325.00</td> </tr> <tr> <td></td> <td></td> <td>Total</td> <td>\$1165.00</td> </tr> </tbody> </table> <p style="text-align: center; border: 1px solid black; padding: 5px;"><b>Transportation Free! Free! Free!</b></p> <p>(a) Complete the bill statement for the materials from Hardware Store A. <b>(1 mark)</b></p> <p>(b) The hardware store <b>MUST</b> transport the materials. Which hardware store offers Mr Lewis the better purchase?</p> <p style="text-align: center;">Answer _____ <b>(2 marks)</b></p>	Quantity	Material	Unit Cost	Price	4	Bags of cement	\$30.00	\$120.00	1	Load of sand	\$700.00	\$700.00	50	Bricks	\$5.00	_____			Total	_____	Quantity	Material	Unit Cost	Price	4	Bags of cement	\$35.00	\$140.00	1	Load of sand	\$700.00	\$700.00	50	Bricks	\$6.50	\$325.00			Total	\$1165.00			
Quantity	Material	Unit Cost	Price																																									
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		Total	\$1165.00																																									
<b>DO NOT WRITE HERE</b>			KC (4)	AT (10)	PS (4)	TOTAL (18)																																						

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
36.	<p>In the following diagram, the dotted line AB is a line of symmetry for the incomplete shaded shape.</p>  <p>Complete the drawing of the shape. (2 marks)</p>		36.		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
37.	(a) The following diagram is incomplete.    Complete the diagram to represent the net of a triangular prism. <b>(1 mark)</b>				
	(b) How many edges does a triangular prism have?  Answer _____ edges <b>(1 mark)</b>		37.		

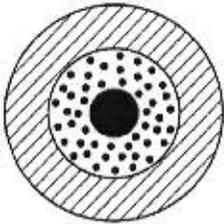
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
38.	<p>Three triangles, P, Q and R are shown below.</p>  <p>(a) Which of the triangles is equilateral?</p> <p>Answer _____ (1 mark)</p> <p>(b) Which of the triangles have AT LEAST ONE line of symmetry?</p> <p>Answer _____ (2 marks)</p>				
			38.		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
39.	<p>The following diagram shows a flat shaded shape, ABCD.</p>  <p>(a) Circle the word from the following list which BEST describes the angle at C.</p> <p>Acute                  Right-angled</p> <p>Obtuse                  Reflex</p> <p style="text-align: right;"><b>(1 mark)</b></p> <p>(b) On the diagram of ABCD, tick (✓) the TWO sides which are PARALLEL to each other.</p> <p style="text-align: right;"><b>(1 mark)</b></p> <p>(c) On the diagram, draw ONE line to divide the shape ABCD into TWO triangles.</p> <p style="text-align: right;"><b>(1 mark)</b></p>					
			39.			
<b>DO NOT WRITE HERE</b>			<b>KC (2)</b>	<b>AT (3)</b>	<b>PS (1)</b>	<b>TOTAL (6)</b>

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here														
			KC	AT	PS												
40.	<p>The following incomplete table shows the number of Standard 4 pupils in a school who qualified for the Mental Mathematics Competition.</p> <p style="text-align: center;"><b>Mathematics Competition</b></p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Standard 4</th> <th>Number of Pupils who Qualified</th> </tr> </thead> <tbody> <tr> <td>4J</td> <td>17</td> </tr> <tr> <td>4K</td> <td></td> </tr> <tr> <td>4L</td> <td>18</td> </tr> <tr> <td>4M</td> <td>17</td> </tr> <tr> <td>4N</td> <td>21</td> </tr> </tbody> </table> <p>The mean number of pupils who qualified from Standard 4 is 19. How many pupils qualified from Standard 4K?</p> <p>Answer _____ pupils (2 marks)</p>	Standard 4	Number of Pupils who Qualified	4J	17	4K		4L	18	4M	17	4N	21		40.		
Standard 4	Number of Pupils who Qualified																
4J	17																
4K																	
4L	18																
4M	17																
4N	21																
<b>DO NOT WRITE HERE</b>			<b>KC (1)</b>	<b>AT (1)</b>	<b>PS (0)</b>	<b>TOTAL (2)</b>											

SECTION III

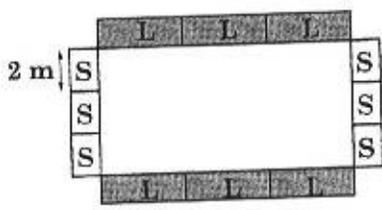
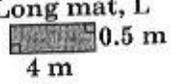
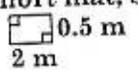
Each question is worth 5 marks. Answer ALL questions.  
Show ALL working in the Working Column.

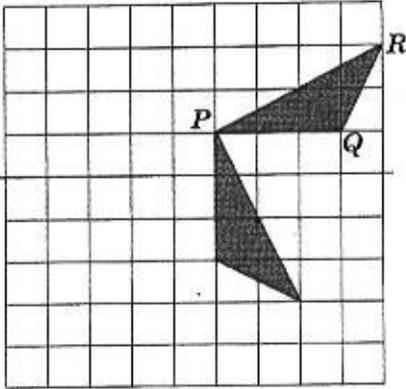
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
41.	<p>Suri and Mali played a game of darts. Each made six strikes. The following diagram shows the number of points earned for striking the patterns on the dart board.</p>  <p>Stripes = 10 points Dots = 20 points Black = 30 points</p> <p>(a) Suri made two strikes on stripes, three on dots and one on black. What is her TOTAL score?</p> <p>Answer _____ points (2 marks)</p>				

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here																
			KC	AT	PS														
	<p>(b) Mali scored 150 points by striking each pattern <b>AT LEAST ONCE</b>. Complete the following score sheet to show how she scored 150 points.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Pattern</th> <th>Number of Strikes</th> <th>Score</th> </tr> </thead> <tbody> <tr> <td>Stripes</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>Dots</td> <td style="text-align: center;">1</td> <td style="text-align: center;">20</td> </tr> <tr> <td>Black</td> <td>_____</td> <td>_____</td> </tr> <tr> <td><b>Total</b></td> <td style="text-align: center;"><b>6</b></td> <td style="text-align: center;"><b>150</b></td> </tr> </tbody> </table> <p style="text-align: center;">(2 marks)</p> <p>(c) What is the <b>LOWEST</b> score possible if in the six strikes, a player hits <b>EACH</b> pattern at <b>LEAST ONCE</b>?</p> <p style="margin-left: 40px;">Answer _____ points (1 mark)</p>	Pattern	Number of Strikes	Score	Stripes	_____	_____	Dots	1	20	Black	_____	_____	<b>Total</b>	<b>6</b>	<b>150</b>			
Pattern	Number of Strikes	Score																	
Stripes	_____	_____																	
Dots	1	20																	
Black	_____	_____																	
<b>Total</b>	<b>6</b>	<b>150</b>																	
			41.																

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here								
			KC	AT	PS						
42.	<p>Use the numbers given in the box below to complete the statements which follow.</p> <table border="1" data-bbox="402 573 698 730"><tr><td>6</td><td>36</td></tr><tr><td>11</td><td>21</td></tr><tr><td>49</td><td>24</td></tr></table> <p>(a) The SQUARE numbers in the box are</p> <p>_____ (2 marks)</p> <p>(b) The SQUARE ROOT of 121 is</p> <p>_____ (1 mark)</p> <p>(c) The TWO numbers which have a product that is equal to the SQUARE of 12 are</p> <p>_____ and _____ (2 marks)</p>	6	36	11	21	49	24		42.		
6	36										
11	21										
49	24										
<b>DO NOT WRITE HERE</b>			<b>KC (5)</b>	<b>AT (10)</b>	<b>PS (5)</b>	<b>TOTAL (20)</b>					

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here																
			KC	AT	PS														
43.	<p>Akil saved \$50 at the end of each week to buy the pair of roller skates shown below.</p>  <p style="text-align: center;"><b>ROLLER SKATES</b></p> <p>(a) How many weeks did it take him to save \$500?</p> <p style="text-align: center;">Answer _____ weeks <b>(1 mark)</b></p> <p>(b) He paid in cash and received a discount. After discount, he paid \$400. What was the percentage discount he received?</p> <p style="text-align: center;">Answer _____ % <b>(2 marks)</b></p> <p>(c) Akil paid the cashier the EXACT \$400 which included ONE or more of EACH bill.</p> <p>Complete the table below to find the LEAST number of bills that Akil gave the cashier.</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <th>Bill</th> <td>\$100</td> <td>\$50</td> <td>\$20</td> <td>\$10</td> <td>\$5</td> <td>\$1</td> </tr> <tr> <th>Number of Bills</th> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5</td> </tr> </table> <p style="text-align: center;">Answer _____ bills <b>(2 marks)</b></p>	Bill	\$100	\$50	\$20	\$10	\$5	\$1	Number of Bills						5				
Bill	\$100	\$50	\$20	\$10	\$5	\$1													
Number of Bills						5													
			43.																

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
44.	<p>The following diagram shows the number of long mats (L) and short mats (S) arranged around a rectangular playing field.</p>  <p>The length and width, in metres, of each type of rectangular mat are shown below.</p> <p> <b>Long mat, L</b>   </p> <p> <b>Short mat, S</b>   </p> <p>Calculate:</p> <p>(a) The length of the playing field            Answer _____ m  <b>(1 mark)</b></p> <p>(b) The width of the playing field            Answer _____ m  <b>(1 mark)</b></p> <p>(c) The area of a short mat            Answer _____ m<sup>2</sup>  <b>(1 mark)</b></p> <p>(d) The number of short mats that would be needed to cover the area of the playing field COMPLETELY            Answer _____ short mats  <b>(2 marks)</b></p>				
			44.		
DO NOT WRITE HERE			KC (3)	AT (5)	PS (2)
			TOTAL (10)		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
45.	<p>The following diagram shows a triangle, <math>PQR</math>, and the position of its image after a movement.</p>  <p>(a) Circle the word from the following list which BEST describes triangle <math>PQR</math>.</p> <p>Right-angled      Isosceles</p> <p>Scalene              Equilateral</p> <p style="text-align: right;">(1 mark)</p> <p>(b) Identify the type of movement.</p> <p>Answer _____</p> <p style="text-align: right;">(1 mark)</p> <p>(c) Describe the movement FULLY.</p> <p>Answer _____</p> <p>_____</p> <p>_____</p> <p style="text-align: right;">(2 marks)</p> <p>(d) Label the image of Point <math>Q</math> as <math>Q'</math>.</p> <p style="text-align: right;">(1 mark)</p>				
			45.		
DO NOT WRITE HERE			KC (1)	AT (2)	PS (2)
			TOTAL (5)		

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here																				
			KC	AT	PS																		
46.	<p>The following table shows the number of chairs rented and returned to Zippy Party Rentals for the period Monday to Friday of a week in May.</p> <p style="text-align: center;"><b>Chair Rentals</b></p> <table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Mon</th> <th>Tue</th> <th>Wed</th> <th>Thur</th> <th>Fri</th> </tr> </thead> <tbody> <tr> <td>Number of Chairs rented</td> <td>113</td> <td>367</td> <td>258</td> <td>969</td> <td>1083</td> </tr> <tr> <td>Number of Chairs returned</td> <td>46</td> <td></td> <td>96</td> <td></td> <td>62</td> </tr> </tbody> </table> <p>(a) On which day was the rental of chairs CLOSEST to 1000?</p> <p style="text-align: right;">Answer _____ (1 mark)</p> <p>(b) The number of chairs returned for the week was 306. Calculate the number of chairs returned on Thursday if twice as many were returned on Tuesday as returned on Thursday.</p> <p style="text-align: right;">Answer _____ chairs (2 marks)</p> <p>(c) What is the mean number of chairs rented over that period in May?</p> <p style="text-align: right;">Answer _____ chairs (2 marks)</p>		Mon	Tue	Wed	Thur	Fri	Number of Chairs rented	113	367	258	969	1083	Number of Chairs returned	46		96		62		46.		
	Mon	Tue	Wed	Thur	Fri																		
Number of Chairs rented	113	367	258	969	1083																		
Number of Chairs returned	46		96		62																		
<b>DO NOT WRITE HERE</b>		KC (1)	AT (2)	PS (2)	TOTAL (5)																		

END OF TEST

IF YOU FINISH BEFORE TIME IS CALLED, CHECK YOUR WORK ON THIS TEST

TRINIDAD AND TOBAGO  
SECONDARY ENTRANCE ASSESSMENT

TRINIDAD AND TOBAGO  
SECONDARY ENTRANCE ASSESSMENT

ANSWER BOOKLET

ANSWER BOOKLET

FILL IN ALL THE INFORMATION REQUESTED CLEARLY AND LEGIBLY.

TEST CODE 

0	4	2	3	4	0	1	1
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TEST CODE 

0	4	2	3	4	0	1	1
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SUBJECT MATHEMATICS 2014

SUBJECT MATHEMATICS 2014

Please place your label here.

Please place your label here.

**READ THE FOLLOWING INSTRUCTIONS CAREFULLY:**

1. This test is divided into **THREE** sections.
2. Make sure you read the instructions before you start to work on any section.
3. Write all your answers in this test booklet.
4. **DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.**

WRITE THE NAME OF YOUR SCHOOL BELOW:


WRITE YOUR FULL NAME BELOW:

--

DATE OF BIRTH

<i>Day</i>	<i>Month</i>	<i>Year</i>

SEX { MALE   
 FEMALE

DO NOT WRITE IN THIS SPACE

FOLDER NUMBER

DO NOT WRITE IN THIS SPACE

FOLDER NUMBER

**Instructions for the Mathematics Test**

You are NOT allowed to use calculators.

This test has THREE sections with a total of 46 questions.

**SECTION I** has 20 questions (Nos. 1 to 20).

**SECTION II** has 20 questions (Nos. 21 to 40).

**SECTION III** has 6 questions (Nos. 41 to 46).

You have **75 minutes** for this test.

Answer ALL questions.

Read EACH question CAREFULLY before answering it.

Show ALL working in the column provided.

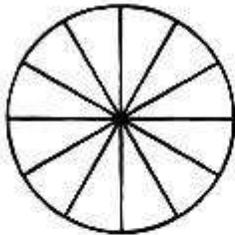
Marks will be given for correct steps taken.

Work carefully but do NOT spend too much time on any one question.

**DO NOT BEGIN UNTIL YOU ARE TOLD TO DO SO.**

SECTION I

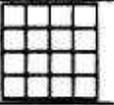
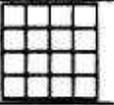
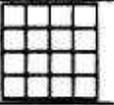
Each question is worth 1 mark. Answer ALL questions.  
Show ALL working in the Working Column.

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
1.	$\begin{array}{r} 417 \\ - 392 \\ \hline \end{array}$ <p>Answer _____</p>		1.		
2.	<p>Write 3.49 to the NEAREST TENTH.</p> <p>Answer _____</p>		2.		
3.	<p>A pizza was cut into 12 equal slices as shown below.</p>  <p>Shade <math>\frac{1}{3}</math> of the pizza.</p>		3.		
4.	<p>Write ONE of the following symbols</p> <p style="text-align: center;">&gt;   =   &lt;</p> <p>in the box below so that the number sentence is correct.</p> <p style="text-align: center;"><math>\frac{3}{4}</math>   <input type="text"/>   <math>\frac{7}{12}</math></p>		4.		

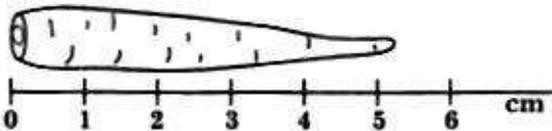
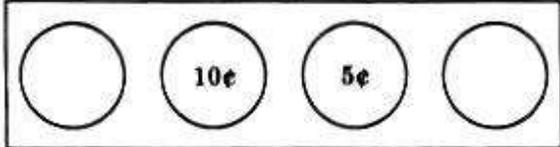
GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
5.	<p>A piece of ribbon is <math>\frac{7}{10}</math> m long.</p> <p>A piece measuring <math>\frac{2}{5}</math> m is cut off.</p> <p>What is the length, in metres, of the remaining piece?</p> <p>Answer _____ m</p>		5.		
	<p><b>Questions 6 and 7 refer to the following information.</b></p> <p>In a spelling contest, Peter was given 40 words to spell. He spelt 32 words correctly.</p> <p>6. What fraction of the total number of words did he spell correctly?</p> <p>Answer _____</p> <p>7. Peter must spell at least 90% of the words correctly to qualify for a consolation prize. How many words should he have spelt correctly to qualify?</p> <p>Answer _____ words</p>		6.		
			7.		

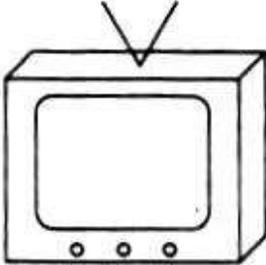
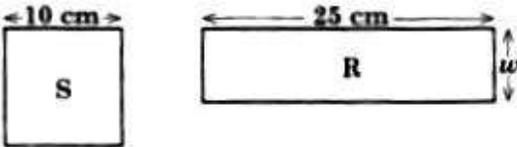
GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here																	
			KC	AT	PS															
8.	<p>The first four shapes in a pattern are shown below. EACH shape is made from squares of the same size.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Shape</th> <th>1<sup>st</sup></th> <th>2<sup>nd</sup></th> <th>3<sup>rd</sup></th> <th>4<sup>th</sup></th> </tr> </thead> <tbody> <tr> <td>Pattern</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Number of Squares</td> <td>1</td> <td>4</td> <td>9</td> <td>16</td> </tr> </tbody> </table> <p>How many squares would form the 6<sup>th</sup> shape?</p> <p>Answer _____ squares</p>	Shape	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	Pattern					Number of Squares	1	4	9	16		8.		
Shape	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>																
Pattern																				
Number of Squares	1	4	9	16																
<b>DO NOT WRITE HERE</b>			<b>KC (2)</b>	<b>AT (4)</b>	<b>PS (2)</b>	<b>TOTAL (8)</b>														
	<p>Complete correctly the sentences in Questions 9 and 10.</p> <p>9. 1 litre = _____ cm<sup>3</sup>.</p> <p>10. 120 minutes = _____ hours.</p>		9.			10.														

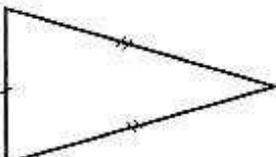
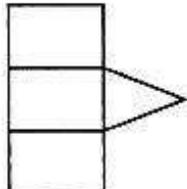
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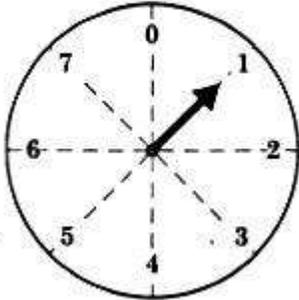
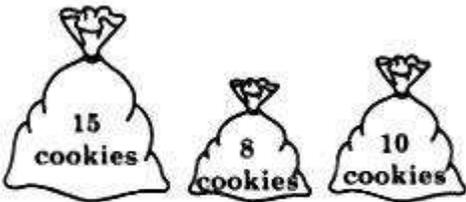
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
11.	<p>The length of a carrot is measured below.</p>  <p>What is its length to the NEAREST centimetre?</p> <p>Answer _____ cm</p>		11.		
12.	<p>A square sheet of paper has sides of 11 cm.</p> <p>What is its area?</p> <p>Answer _____ cm<sup>2</sup></p>		12.		
13.	<p>Shari has 4 coins on her desk. They have a total value of 50 ¢. The value of 2 coins is shown in the diagram below.</p>  <p>Write the correct value on EACH of the other 2 coins.</p>		13.		

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here								
			KC	AT	PS						
14.	<p>A sales clerk is preparing a tag to show the selling price for a television.</p>  <p>Complete the tag below.</p> <table border="1" data-bbox="274 875 753 1087"> <tr> <td><b>Cost Price</b></td> <td>\$1 740.00</td> </tr> <tr> <td><b>Discount</b></td> <td>\$174.00</td> </tr> <tr> <td><b>Selling Price</b></td> <td></td> </tr> </table>	<b>Cost Price</b>	\$1 740.00	<b>Discount</b>	\$174.00	<b>Selling Price</b>			14.		
<b>Cost Price</b>	\$1 740.00										
<b>Discount</b>	\$174.00										
<b>Selling Price</b>											
15.	<p>A square, labelled <i>S</i>, and a rectangle, labelled <i>R</i>, are shown below. (The shapes are not drawn to scale.)</p>  <p>Both shapes have the same area. Calculate the width, <i>w</i>, of rectangle <i>R</i>?</p> <p>Answer _____</p>		15.								
<b>DO NOT WRITE HERE</b>			<b>KC (2)</b>	<b>AT (4)</b>	<b>PS (1)</b>	<b>TOTAL (7)</b>					

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
16.	<p>The triangle shown below has ONLY two sides of equal length.</p>  <p>What type of triangle is it?</p> <p>Answer _____</p>		16.		
17.	<p>Complete the drawing below to show the net of a triangular-based prism.</p> 		17.		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
18.	<p>Sunil changes the position of the arrow on the circular dial shown below.</p>  <p>He makes a quarter turn ANTI-CLOCKWISE. At which number is the arrow now pointing ?</p> <p>Answer _____</p>		18.			
<b>DO NOT WRITE HERE</b>			<b>KC (1)</b>	<b>AT (1)</b>	<b>PS (1)</b>	<b>TOTAL (3)</b>
19.	<p>Cookies were packaged in three bags as shown below.</p>  <p>What is the mean number of cookies in a bag?</p> <p>Answer _____ cookies</p>		19.			

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here														
			KC	AT	PS												
20.	<p>The graph below shows the number of haircuts a barber did on five days of a particular week.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Day</th> <th>Number of Haircuts</th> </tr> </thead> <tbody> <tr> <td>Monday</td> <td></td> </tr> <tr> <td>Tuesday</td> <td></td> </tr> <tr> <td>Wednesday</td> <td></td> </tr> <tr> <td>Thursday</td> <td></td> </tr> <tr> <td>Friday</td> <td></td> </tr> </tbody> </table> <p>The total number of haircuts done in the five days is 75.</p> <p>How many haircuts were done by the barber on Monday?</p> <p style="text-align: center;">Answer _____ haircuts</p>	Day	Number of Haircuts	Monday		Tuesday		Wednesday		Thursday		Friday					
		Day	Number of Haircuts														
Monday																	
Tuesday																	
Wednesday																	
Thursday																	
Friday																	
<b>DO NOT WRITE HERE</b>			<b>KC (0)</b>	<b>AT (1)</b>	<b>PS (1)</b>	<b>TOTAL (2)</b>											

SECTION II

Each question is worth either 2 or 3 marks. Answer ALL questions.  
Show ALL working in the Working Column.

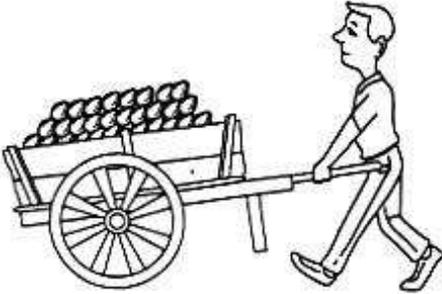
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
21.	$5\frac{1}{2} - 2\frac{5}{8} =$ <p>Answer _____ (2 marks)</p>		21.		
22.	<p>Simplify, using decimal notation,</p> $7 + \frac{5}{10} + \frac{3}{100}$ <p>Answer _____ (2 marks)</p>		22.		
23.	<p>Carrie had \$60 as an allowance for the week. She spent <math>\frac{2}{5}</math> of it on snacks, <math>\frac{1}{4}</math> of it on stickers and saved the remainder.</p> <p>(a) What fraction did she spend on snacks and stickers together?</p> <p>Answer _____ (1 mark)</p> <p>(b) How much money did she save?</p> <p>Answer \$ _____ (1 mark)</p>		23.		

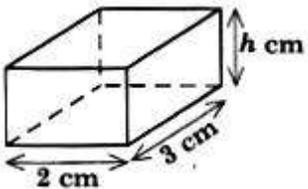
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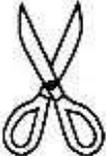
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
24.	<p>In a car park, <math>\frac{3}{5}</math> of the cars are blue and the remainder are white. What percentage of the cars are white?</p> <p>Answer _____ % (2 marks)</p>		24.		
25.	<p>Alim collected seashells over the weekend. He collected 45 seashells on Saturday and three times as many on Sunday.</p> <p>(a) How many seashells did Ali collect on Sunday?</p> <p>Answer _____ seashells (1 mark)</p> <p>(b) What percentage of the seashells collected over the weekend did he collect on Saturday?</p> <p>Answer _____ % (2 marks)</p>		25.		

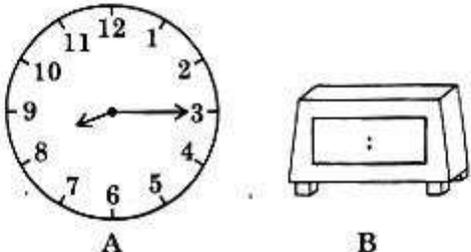
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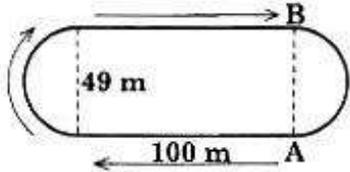
No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>											
26.	<p>The table below shows the points scored for hitting three different coloured targets in a video game.</p> <table border="1" data-bbox="277 548 768 831"><thead><tr><th>Colour</th><th>Number of Points</th></tr></thead><tbody><tr><td>White</td><td>2</td></tr><tr><td>Blue</td><td>3</td></tr><tr><td>Gold</td><td>5</td></tr></tbody></table> <p>Ana scored 53 points in playing the game. She hit the blue target 4 times and the white target 3 times.</p> <p>How many times did she hit the GOLD target?</p> <p>Answer _____ times (3 marks)</p>	Colour	Number of Points	White	2	Blue	3	Gold	5		26.	KC	AT	PS
Colour	Number of Points													
White	2													
Blue	3													
Gold	5													

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
27.	<p>A fruit vendor transported 360 mangoes to the market. While transporting the mangoes, 10% of them were damaged.</p>  <p>(a) How many mangoes were damaged?</p> <p>Answer _____ mangoes (1 mark)</p> <p>(b) The mangoes that were not damaged were packed into boxes of 12. How many boxes were used to pack these mangoes?</p> <p>Answer _____ boxes (2 marks)</p>		27.			
28.	<p>Five years ago, Paul was <math>\frac{3}{8}</math> his father's age. Paul's father is now 37 years old. How old is Paul now?</p> <p>Answer _____ (3 marks)</p>		28.			
DO NOT WRITE HERE			KC (5)	AT (10)	PS (5)	TOTAL (20)

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here								
			KC	AT	PS						
29.	<p>The volume of the cuboid shown below is <math>48 \text{ cm}^3</math>. The length of the cuboid is 3 cm, the width is 2 cm and the height is <math>h</math> cm.</p>  <p>Calculate the value of <math>h</math>.</p> <p>Answer _____ (2 marks)</p>		29.								
30.	<p>Burns ran the following distances over a 2-week period while training for the Olympics.</p> <table border="1" data-bbox="305 1239 738 1459"> <thead> <tr> <th>Week</th> <th>Distance Ran</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3 km 800 m</td> </tr> <tr> <td>2</td> <td>2.75 km</td> </tr> </tbody> </table> <p>What is the TOTAL distance covered by Burns over the 2 weeks?</p> <p>Answer _____ (2 marks)</p>	Week	Distance Ran	1	3 km 800 m	2	2.75 km		30.		
Week	Distance Ran										
1	3 km 800 m										
2	2.75 km										

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here	
			KC	AT
31.	<p>Mr Lee borrowed \$8000 from the bank to buy a used car. He paid simple interest at a rate of 12% per year for a period of 3 years.</p> <p>How much simple interest did Mr Lee pay?</p> <p>Answer \$ _____ (2 marks)</p>		31.	
32.	<p>Jane bought the 3 items shown below at the supermarket.</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">   <b>Notebook</b>                      \$1.90                 </div> <div style="text-align: center;">   <b>Comb</b>                      \$2.10                 </div> <div style="text-align: center;">   <b>Scissors</b>                      \$3.65                 </div> </div> <p>(a) What is the TOTAL cost of the 3 items?</p> <p>Answer \$ _____ (1 mark)</p> <p>(b) Calculate Jane's EXACT change if she paid for the items with a \$20.00 bill.</p> <p>Answer \$ _____ (2 marks)</p>		32.	

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
33.	<p>The time shown on Clock A is 15 minutes AHEAD of the correct time.</p>  <p>(a) Insert the correct time on Clock B.</p> <p>Answer _____ (1 mark)</p> <p>(b) At the end of the next hour, Clock A gained an additional 5 minutes ahead of the correct time.</p> <p>What time will be shown on Clock A?</p> <p>Answer _____ (2 marks)</p>				
			33.		

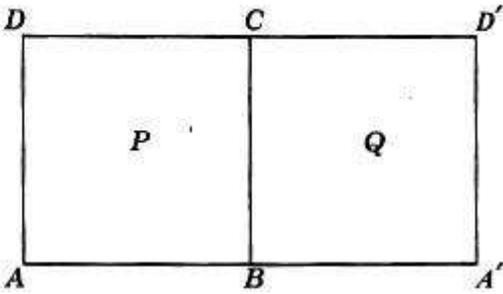
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	P	
34.	<p>The diagram below shows a cycling track consisting of a rectangle and two semicircles.</p>  <p>A cyclist starts at point A and cycles in the direction of the arrows to point B. What distance did he cover?  <math>(\pi = \frac{22}{7})</math></p> <p>Answer _____ metres  <b>(3 marks)</b></p>		34.			
35.	<p>The school cafeteria bought 5 dozen silly bands at \$15 per dozen and sold them for \$2 EACH.</p> <p>(a) What was the profit, in dollars, made by the school cafeteria?</p> <p>Answer \$ _____  <b>(2 marks)</b></p> <p>(b) Calculate the profit as a percentage of the cost price.</p> <p>Answer _____ %  <b>(1 mark)</b></p>		35.			
DO NOT WRITE HERE			KC (4)	AT (10)	PS (4)	TOTAL (18)

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
36.	<p>The diagram below shows an incomplete plane shape and one of its lines of symmetry, <i>RS</i>.</p> <p>(a) Complete the drawing of the shape. (1 mark)</p> <p>(b) Draw another line of symmetry, <i>PQ</i>, for the completed shape. (1 mark)</p>		36.		

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>		
			KC	AT	PS
37.	<p>Use the diagram below to answer the questions that follow.</p>  <p>State the names of:</p> <p>(a) ONE plane shape in the diagram above</p> <p>Answer _____ _____ (1 mark)</p> <p>(b) ONE solid that would be needed to make a model of the building</p> <p>Answer _____ (1 mark)</p>		37.		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
38.	<p>The diagram below shows a cylindrical package closed at both ends.</p>  <p>(a) How many faces does the package have?</p> <p>Answer _____ faces (1 mark)</p> <p>(b) Draw the net of the package. (2 marks)</p>		38.		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
39.	<p>The shape <math>ABCD</math> below is moved from its position at <math>P</math> to the position at <math>Q</math> so that Corner <math>A</math> is now at <math>A'</math> and Corner <math>D</math> is now at <math>D'</math>.</p>  <p>(a) What is the name of this movement?</p> <p>Answer _____ (1 mark)</p> <p>(b) Describe the movement in (a) FULLY.</p> <p>Answer _____ (1 mark)</p> <p>(c) Under the same movement in (a), describe what happens to Corner <math>B</math>.</p> <p>Answer _____ _____ (1 mark)</p>				
			39.		
DO NOT WRITE HERE			KC (2)	AT (5)	PS (3)
			TOTAL (10)		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
40.	<p>The pie chart below shows the favourite pets of the pupils in Standard 3.</p> <p>(a) Which TWO pets are EQUALLY favoured?</p> <p>Answer _____ (1 mark)</p> <p>(b) What percentage of the pupils in Standard 3 favour parrots?</p> <p>Answer _____ % (1 mark)</p>		40.			
<b>DO NOT WRITE HERE</b>			<b>KC (1)</b>	<b>AT (1)</b>	<b>PS (0)</b>	<b>TOTAL (2)</b>

GO ON TO THE NEXT PAGE

SECTION III

Each question is worth 5 marks. Answer ALL questions.  
Show ALL working in the Working Column.

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
41.	<p>A fruit vendor has 160 fruits in his stall. Of these, <math>\frac{3}{8}</math> are mangoes and 20% are plums. The remainder are avocados.</p> <p>(a) How many mangoes does he have?</p> <p>Answer _____ mangoes (1 mark)</p> <p>(b) Express the number of fruits that are plums as a DECIMAL fraction.</p> <p>Answer _____ (1 mark)</p> <p>(c) Calculate the number of avocados in the stall.</p> <p>Answer _____ avocados (3 marks)</p>		41.		

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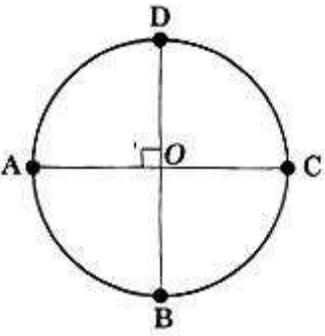
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
42.	<p>Nine light posts are evenly spaced along a highway. A total of 144 plastic pipes of the same length are placed EQUALLY between the 9 posts.</p>  <p>(a) How many pipes are placed between the first and second posts?</p> <p>Answer _____ pipes (3 marks)</p> <p>(b) Each pipe is 7 m long. The pipes are connected end-to-end (just touching each other) between the posts.</p> <p>What is the distance between the first and second posts?</p> <p>Answer _____ m (2 marks)</p>		42.			
<b>DO NOT WRITE HERE</b>			<b>KC (3)</b>	<b>AT (5)</b>	<b>PS (2)</b>	<b>TOTAL (10)</b>

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
43.	<p>An appliance store offers <math>33\frac{1}{3}\%</math> discount on cash purchases. The original price on a refrigerator is \$8400.</p> <p>(a) What is the discounted price on the refrigerator?</p> <p>Answer \$ _____ (2 marks)</p> <p>(b) VAT at 15% is calculated on the discounted price. How much is the VAT?</p> <p>Answer \$ _____ (1 mark)</p> <p>(c) What is the FINAL cost of the refrigerator when purchased for cash?</p> <p>Answer \$ _____ (2 marks)</p>		43.		

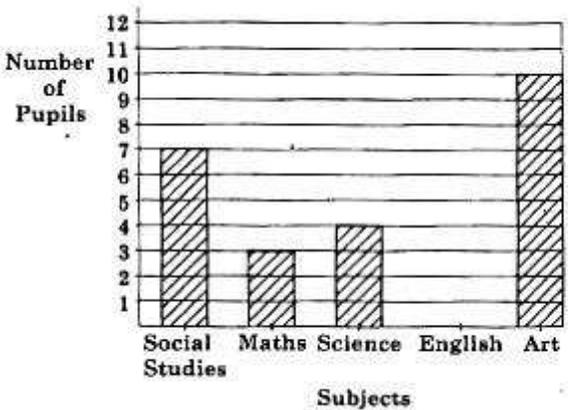
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here								
			KC	AT	PS						
44.	<p>Lance's weekly wage is calculated using the rates in the table below. Lance works for 8 hours daily.</p> <table border="1" style="margin: 10px auto; width: 80%;"> <thead> <tr> <th colspan="2">Wage Rates</th> </tr> </thead> <tbody> <tr> <td>\$10 per hour during the week</td> <td>(Monday to Friday)</td> </tr> <tr> <td>\$15 per hour for weekends</td> <td>(Saturday and Sunday)</td> </tr> </tbody> </table> <p>(a) During one week, Lance worked on Monday, Wednesday, Friday and Saturday. How many hours did Lance work in that week?</p> <p style="text-align: right;">Answer _____ hours (1 mark)</p> <p>(b) Using the rates in the table above, calculate Lance's wage for that week.</p> <p style="text-align: right;">Answer \$ _____ (2 marks)</p> <p>(c) Lance's wage last week was \$400. He worked on Saturday and Sunday. How many HOURS did he work from Monday to Friday?</p> <p style="text-align: right;">Answer _____ hours (2 marks)</p>	Wage Rates		\$10 per hour during the week	(Monday to Friday)	\$15 per hour for weekends	(Saturday and Sunday)				
Wage Rates											
\$10 per hour during the week	(Monday to Friday)										
\$15 per hour for weekends	(Saturday and Sunday)										
<b>DO NOT WRITE HERE</b>			<b>KC (3)</b>	<b>AT (5)</b>	<b>PS (2)</b>	<b>TOTAL (10)</b>					

44.

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
45.	<p>Four points, <math>A, B, C, D</math>, are equally spaced around the edge of a circular spinner and connected to the centre <math>O</math> as shown in the diagram below.</p>  <p>(a) Raj turns the spinner so that <math>A</math> moves in an anti-clockwise direction to the position of <math>B</math>.</p> <p>What was the size of the angle through which the spinner moved?</p> <p>Answer _____ (1 mark)</p> <p>(b) Describe FULLY how Raj can turn the spinner so that <math>B</math> moves to the position of <math>D</math>.</p> <p>Answer _____ _____ _____ (2 marks)</p>				

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
	<p>(c) Raj turned the spinner so that <math>C</math> moves <math>225^\circ</math> in a clockwise direction to a point <math>M</math>.</p> <p>Label the point <math>M</math> on the diagram on page 28.</p> <p style="text-align: right;">(2 marks)</p>		45.		
DO NOT WRITE HERE		KC (1)	AT (2)	PS (2)	TOTAL (5)

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here													
			KC	AT	PS											
46.	<p>The incomplete bar graph below shows the favourite subjects of the 30 pupils in a Standard 5 class.</p>  <table border="1" style="display: none;"> <caption>Data from Bar Graph</caption> <thead> <tr> <th>Subject</th> <th>Number of Pupils</th> </tr> </thead> <tbody> <tr> <td>Social Studies</td> <td>7</td> </tr> <tr> <td>Maths</td> <td>3</td> </tr> <tr> <td>Science</td> <td>4</td> </tr> <tr> <td>English</td> <td>0</td> </tr> <tr> <td>Art</td> <td>10</td> </tr> </tbody> </table> <p>(a) How many <b>more</b> pupils favour Social Studies than Maths?</p> <p>Answer _____ pupils (1 mark)</p> <p>(b) What percentage of the class chose Maths as their favourite subject?</p> <p>Answer _____ % (1 mark)</p> <p>(c) How many pupils chose English as their favourite subject?</p> <p>Answer _____ pupils (2 marks)</p>	Subject	Number of Pupils	Social Studies	7	Maths	3	Science	4	English	0	Art	10			
Subject	Number of Pupils															
Social Studies	7															
Maths	3															
Science	4															
English	0															
Art	10															

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
	(d) Complete the graph on page 30 by drawing the bar to represent the number of pupils whose favourite subject is English. <p style="text-align: right;">(1 mark)</p>		46.			
<b>DO NOT WRITE HERE</b>			<b>KC (1)</b>	<b>AT (2)</b>	<b>PS (2)</b>	<b>TOTAL (5)</b>

END OF TEST

IF YOU FINISH BEFORE TIME IS CALLED, CHECK YOUR WORK ON THIS TEST.

TEST CODE **04234011**

**FORM SEA/2011**

MARCH 2011

C A R I B B E A N E X A M I N A T I O N S C O U N C I L

TRINIDAD AND TOBAGO

SECONDARY ENTRANCE ASSESSMENT

MATHEMATICS

*75 minutes*

**PRIMARY  
SCHOOL:** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

**CENTRE NUMBER:** \_\_\_\_\_

**CANDIDATE NUMBER:** \_\_\_\_\_

**READ THE FOLLOWING INSTRUCTIONS CAREFULLY.**

1. This test is divided into **THREE** sections.
  2. Make sure that you understand the directions before you start to work on any section.
  3. Write **ALL** your answers in this test booklet. Show **ALL** your working in the Working Column.
  4. **DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.**
-

**Directions for the Mathematics Test**

You are NOT allowed to use **calculators**.

This test has **THREE** sections with a total of 46 test items.

**SECTION I** has 20 items (Nos. 1 to 20).

**SECTION II** has 20 items (Nos. 21 to 40).

**SECTION III** has 6 items (Nos. 41 to 46).

You have 75 minutes for this test.

Answer **ALL** questions.

Read **EACH** question **CAREFULLY** before answering it.

Show **ALL** working in the column provided.

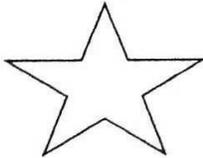
Marks will be given for correct steps taken.

Work carefully but do **NOT** spend too much time on any one question.

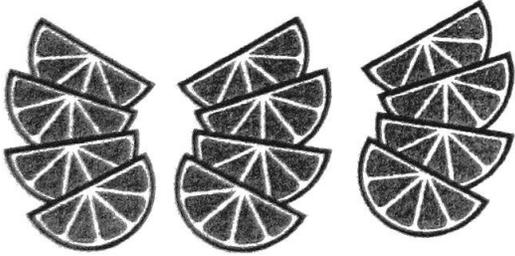
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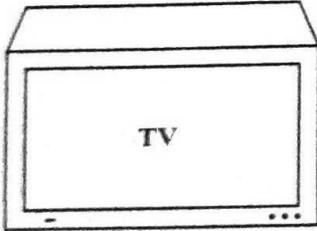
SECTION I

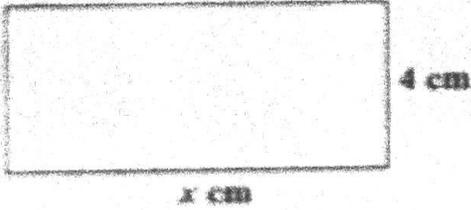
EACH question is worth 1 mark. Answer ALL questions.  
Show ALL working in the Working Column.

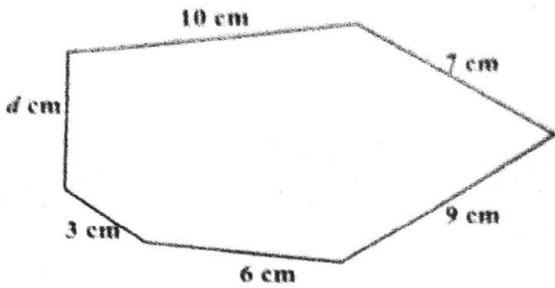
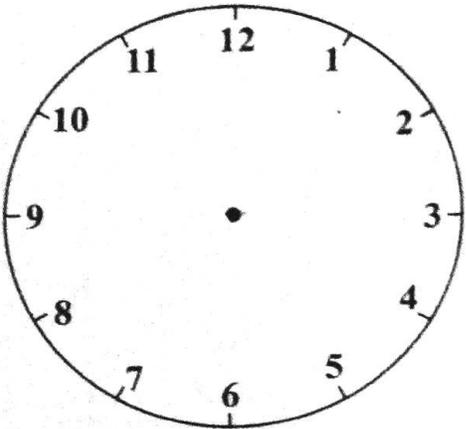
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
1.	Calculate: $\begin{array}{r} 1996 \\ - 684 \\ \hline \end{array}$ Answer _____		1.		
2.	Write in words: 12 540  Answer _____ _____		2.		
3.	A starfish has 5 arms as shown below.   How many arms will 16 starfish have?  Answer _____ arms		3.		
4.	Write 8.74 to the NEAREST tenth.  Answer _____		4.		

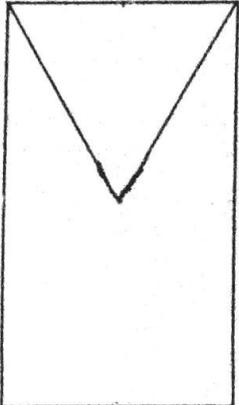
GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
5.	<p>Arrange the fractions below in ASCENDING order. (Begin with the SMALLEST.)</p> $\frac{1}{4} \quad \frac{1}{12} \quad \frac{1}{3} \quad \frac{1}{6}$ <p>Answer _____</p>		5.		
6.	<p>Jamie divides an orange into 12 equal slices.</p>  <p>She gives <math>\frac{3}{4}</math> to her friend. How many slices does Jamie give to her friend?</p> <p>Answer _____ slices</p>		6.		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here							
			KC	AT	PS					
7.	<p>The whole shape below is divided into the portions shown.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 20px; height: 20px;">30%</td> <td style="width: 20px; height: 20px;">10%</td> <td style="width: 20px; height: 20px;"><math>x\%</math></td> <td style="width: 20px; height: 20px;"><math>x\%</math></td> <td style="width: 20px; height: 20px;"><math>x\%</math></td> </tr> </table> <p>What number does <math>x</math> represent?</p> <p>Answer _____ %</p>	30%	10%	$x\%$	$x\%$	$x\%$		7.		
30%	10%	$x\%$	$x\%$	$x\%$						
8.	<p>Ms Mohammed is paying cash for the TV and receives a 20% discount.</p> <div style="display: flex; align-items: center; justify-content: center;">  <div style="margin-left: 20px;"> <p style="border: 1px solid black; padding: 2px; display: inline-block;">Cash Price - \$520</p> </div> </div> <p>Calculate the amount of this discount.</p> <p>Answer \$ _____</p>		8.							
DO NOT WRITE HERE			KC (2)	AT (4)	PS (2)	TOTAL (8)				
9.	<p>A rope is 2.5 m long. What is its length in centimetres?</p> <p>Answer _____ cm</p>		9.							

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
10.	<p>How many quarters (25¢ coins) will Tori get in exchange for a \$5.00 note?</p> <p>Answer _____ quarters</p>		10.		
11.	<p>Sam bought a book for \$3.75. He sold it for \$5.25. How much profit did he make?</p> <p>Answer \$ _____</p>		11.		
12.	<p>The width of the rectangular card below is 4 cm. The length, <math>x</math> cm, of the card is twice the width.</p>  <p>Calculate the area of the card.</p> <p>Answer _____ <math>\text{cm}^2</math></p>		12.		

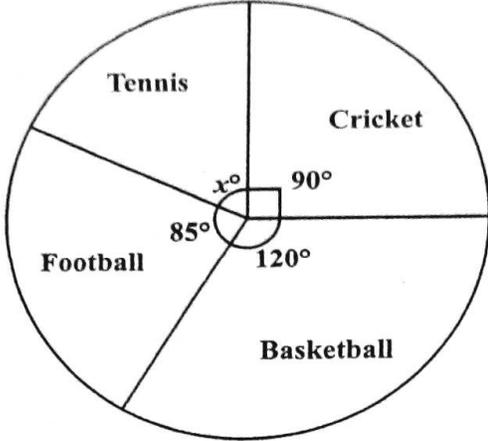
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
13.	<p>A piece of board has the shape shown below. The perimeter of the board is 40 cm.</p>  <p>Calculate the length of the side marked <math>d</math> cm.</p> <p>Answer <math>d =</math> _____ cm</p>		13.		
14.	<p>Indira awoke at quarter past seven. Draw in the hands on the clock below to show the time Indira awoke.</p> 		14.		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
15.	<p>School starts at 8:45 a.m. Sally arrived half of an hour late. What time did she arrive at school?</p> <p>Answer _____ a.m.</p>					
DO NOT WRITE HERE			KC (2)	AT (4)	PS (1)	TOTAL (7)
16.	<p>Draw the line or lines of symmetry in the plane shape below.</p> 				16.	
17.	<p>Sajani is facing the North. She turns CLOCKWISE to face the East. Through how many degrees has Sajani turned?</p> <p>Answer _____ degrees</p>				17.	

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
18.	<p>In the diagram below, the two angles labelled 'α' are equal. Calculate the value of 'α'.</p> <p>Answer α = _____ degrees</p>				18.

DO NOT WRITE HERE	KC (1)		AT (1)		PS (1)		TOTAL (3)	
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19.	<p>The graph below shows the number of children buying ice-cream from Monday to Friday.</p> <p>How many MORE children bought ice-cream on Monday than on Wednesday?</p> <p>Answer _____ children</p>					19.
-----	--	--	--	--	--	-----

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
20.	<p>The pie chart below shows the favourite sports of the students of Standard 4.</p>  <p>The angle for tennis is <math>x^\circ</math>. Calculate the value of <math>x</math>.</p> <p>Answer <math>x =</math> _____ degrees</p>		20.			
<b>DO NOT WRITE HERE</b>			<b>KC (0)</b>	<b>AT (1)</b>	<b>PS (1)</b>	<b>TOTAL (2)</b>

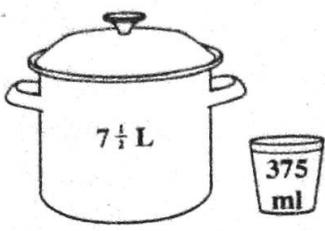
SECTION II

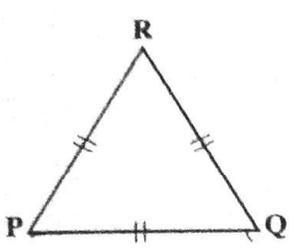
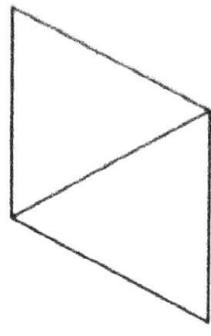
EACH question is worth either 2 or 3 marks. Answer ALL questions.  
Show ALL working in the Working Column.

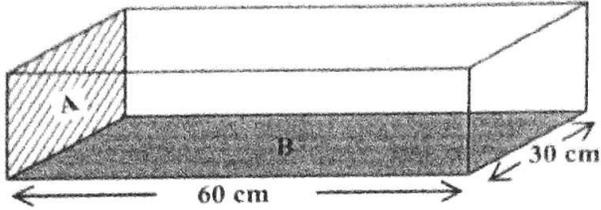
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
21. ★	Calculate: $16 \frac{1}{5} \div 2 \frac{7}{10}$  Answer _____ (2 marks)		21.		
22.	Ravi has 56 marbles. Scott has half as many as Ravi. How many marbles do they have ALTOGETHER?  Answer _____ marbles (2 marks)		22.		
23.	In a speed-reading competition, Anna read 10 pages for every 7 pages that Kevin read. At the end of the competition, Kevin read 140 pages. How many pages did Anna read?  Answer _____ pages (2 marks)		23.		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
24.	<p>Tom sets out on a journey of 1 km. He ran <math>\frac{1}{3}</math> km and then walked <math>\frac{3}{5}</math> km. What fraction of the journey did Tom still have to travel to complete 1 km?</p> <p>Answer _____ (2 marks)</p>		24.		
25.	<p>There were 15 weeks in the school term. Paul went to school for the first 2 weeks and was absent the next week. This pattern was repeated throughout the whole term. For how many weeks was Paul present during the term?</p> <p>Answer _____ weeks (3 marks)</p>		25.		
26.	<p>(a) Write in the box below the sign, &gt; or &lt;, that CORRECTLY completes the number sentence.</p> $\frac{3}{4} \quad \square \quad \frac{2}{3}$ <p>(b) Find the difference between</p> $\frac{3}{4} \quad \text{and} \quad \frac{2}{3}$ <p>Answer _____ (3 marks)</p>		26.		

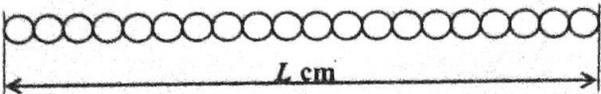
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here											
			KC	AT	PS									
27.	<p>Complete the table below by writing in the CORRECT percentage at (a) and fraction at (b).</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Fraction (lowest term)</th> <th>Percentage</th> <th>Decimal</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><math>\frac{2}{3}</math></td> <td style="text-align: center;">(a) %</td> <td style="background-color: #cccccc;"></td> </tr> <tr> <td style="text-align: center;">(b)</td> <td style="background-color: #cccccc;"></td> <td style="text-align: center;">0.005</td> </tr> </tbody> </table> <p style="text-align: right;"><b>(3 marks)</b></p>	Fraction (lowest term)	Percentage	Decimal	$\frac{2}{3}$	(a) %		(b)		0.005		27.		
		Fraction (lowest term)	Percentage	Decimal										
$\frac{2}{3}$	(a) %													
(b)		0.005												
28.	<p>Study the number pattern below.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">4</td> <td style="text-align: center;">9</td> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> <td style="text-align: center;">36</td> </tr> </table> <p>(a) Write in the TWO missing numbers.</p> <p style="text-align: center;">Answer _____ <b>(2 marks)</b></p> <p>(b) What is the NINTH number in this number pattern?</p> <p style="text-align: center;">Answer _____ <b>(1 mark)</b></p>	1	4	9			36	28.						
1	4	9			36									
<b>DO NOT WRITE HERE</b>			<b>KC (5)</b>	<b>AT (10)</b>	<b>PS (5)</b>	<b>TOTAL (20)</b>								

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
29.	<p>A food vendor made <math>7\frac{1}{2}</math> litres of soup for sale. She sells the soup in servings of 375 ml.</p>  <p>How many servings of soup can she get from the <math>7\frac{1}{2}</math> litres?</p> <p>Answer _____ servings (2 marks)</p>		29.		
30.	<p>The combined weight of <u>Jane</u> and her <u>sister, Nora</u>, is <u>51.4 kg</u>. If <u>Jane</u> is <u>5.6 kg</u> heavier than <u>Nora</u>, how much does <u>Nora</u> weigh?</p> <p>Answer _____ kg (2 marks)</p>		30.		

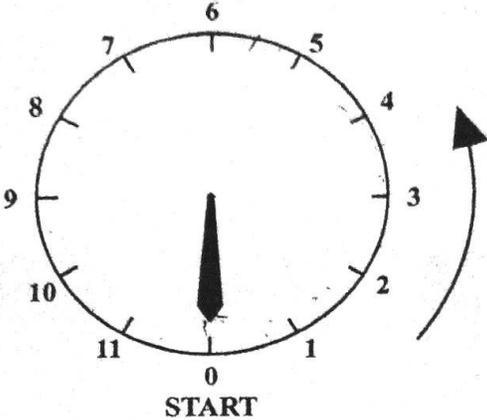
No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>			
			KC	AT	PS	
31.	<p>The sides of triangle PQR are equal in length. The perimeter of PQR is 21 cm.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Diagram I</p> </div> <div style="text-align: center;">  <p>Diagram II</p> </div> </div> <p>(a) What is the length of PQ?</p> <p style="text-align: center;">Answer _____ cm (1 mark)</p> <p>(b) Two triangles identical to PQR are combined as shown in Diagram II to form a new shape.</p> <p>Find the perimeter of the new shape.</p> <p style="text-align: center;">Answer _____ cm (1 mark)</p>		31.			

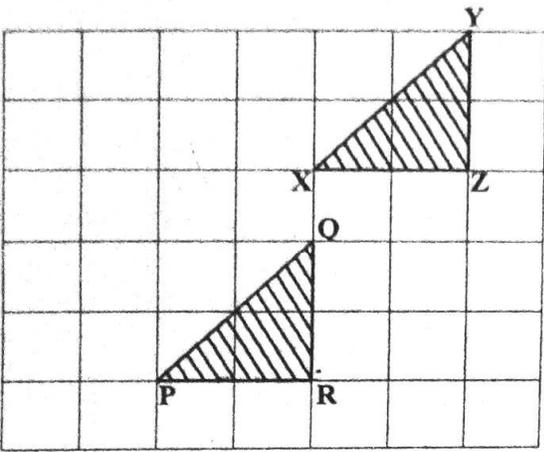
No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>		
			KC	AT	PS
32.	<p>The volume of the cuboid fish tank shown below is <math>72\,000\text{ cm}^3</math>.</p>  <p>(a) What is the area of its base labelled B?</p> <p>Answer _____ <math>\text{cm}^2</math> (1 mark)</p> <p>(b) How deep is the fish tank?</p> <p>Answer _____ <math>\text{cm}</math> (1 mark)</p> <p>(c) Calculate the area of the shaded side A.</p> <p>Answer _____ <math>\text{cm}^2</math> (1 mark)</p>		32.		

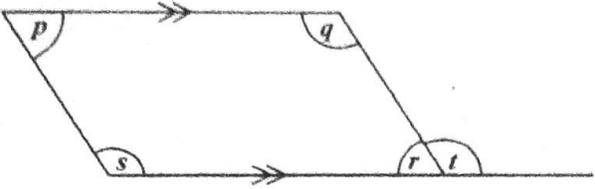
No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>																																	
			KC	AT	PS																															
33.	<p>Chelsea bought some items at Reflex Clothing Store. Her bill is shown below. Some values are not stated.</p> <table border="1" data-bbox="138 466 803 1276"> <thead> <tr> <th colspan="4">Reflex Clothing Store</th> </tr> <tr> <th>Quantity</th> <th>Item</th> <th>Unit Cost</th> <th>Cost</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Track Pants</td> <td>@ \$55.00</td> <td>\$55.00</td> </tr> <tr> <td>3</td> <td>T-shirts</td> <td>@ \$20.00</td> <td><input type="text"/></td> </tr> <tr> <td>5</td> <td>Handkerchiefs</td> <td>@ \$4.00</td> <td>\$20.00</td> </tr> <tr> <td colspan="3">Total before VAT</td> <td>\$135.00</td> </tr> <tr> <td colspan="3">VAT 15%</td> <td><input type="text"/></td> </tr> <tr> <td colspan="3">Total Cost after VAT</td> <td><input type="text"/></td> </tr> </tbody> </table> <p>Calculate</p> <p>(a) the cost of the 3 T-shirts                      Answer \$ _____ (1 mark)</p> <p>(b) the VAT on her total bill                      Answer \$ _____ (1 mark)</p> <p>(c) the TOTAL cost after VAT.                      Answer \$ _____ (1 mark)</p>	Reflex Clothing Store				Quantity	Item	Unit Cost	Cost	1	Track Pants	@ \$55.00	\$55.00	3	T-shirts	@ \$20.00	<input type="text"/>	5	Handkerchiefs	@ \$4.00	\$20.00	Total before VAT			\$135.00	VAT 15%			<input type="text"/>	Total Cost after VAT			<input type="text"/>	33.		
Reflex Clothing Store																																				
Quantity	Item	Unit Cost	Cost																																	
1	Track Pants	@ \$55.00	\$55.00																																	
3	T-shirts	@ \$20.00	<input type="text"/>																																	
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Total before VAT			\$135.00																																	
VAT 15%			<input type="text"/>																																	
Total Cost after VAT			<input type="text"/>																																	

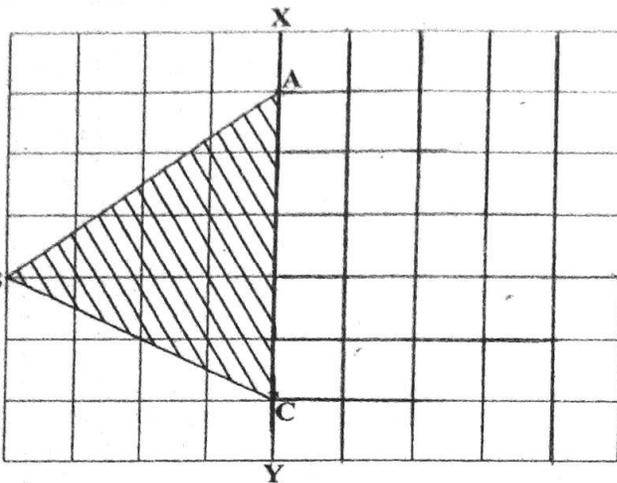
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
34.	<p>Shae designed a gold chain by using 20 thin gold circles arranged as shown below. Each circle has a radius of 1.5 cm.</p>  <p>(a) What is the diameter of EACH circle?</p> <p>Answer Diameter = _____ cm (1 mark)</p> <p>(b) Calculate the length, <math>L</math> cm, of the chain.</p> <p>Answer <math>L =</math> _____ cm (1 mark)</p> <p>(c) Shae needs a matching bracelet to measure 18 cm in length. How many circles are needed?</p> <p>Answer _____ (1 mark)</p>				
			34.		

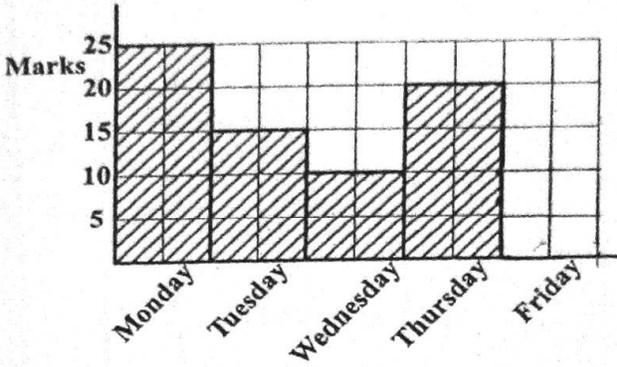
No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>		
			KC	AT	PS
35.	<p>The entrance fee to a cricket match was \$12 for a teacher and half-price for a student. A group of 20 students and 3 teachers went to the match. Calculate the TOTAL entrance fee for the group.</p> <p style="text-align: right;">Answer \$ _____ (3 marks)</p>		35.		
<b>DO NOT WRITE HERE</b>			KC (4)	AT (10)	PS (4)
			<b>TOTAL (18)</b>		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	P3
36.	<p>The gauge needle on a welder's gas tank moves in the direction of the arrow shown below.</p>  <p>(a) How many degrees does the needle turn through from START to 8?</p> <p>Answer _____ degrees (1 mark)</p> <p>(b) The needle moves from 0 through 135 degrees. Where is the new position of the needle?</p> <p>Answer _____ (1 mark)</p>		36.		

No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>		
			KC	AT	PS
37.	<p>The triangle XYZ is moved to the position of triangle PQR.</p>  <p>(a) Name the movement.</p> <p>Answer _____ (1 mark)</p> <p>(b) Describe this movement FULLY.</p> <p>Answer _____</p> <p>_____</p> <p>_____ (1 mark)</p>		37.		

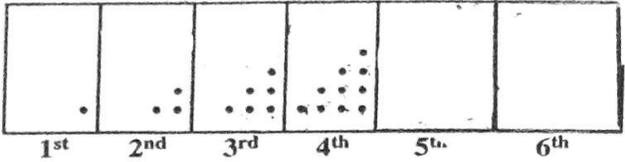
No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>			
			KC	AT	PS	
38.	<p>Refer to the diagram below to answer the questions that follow.</p>  <p>(a) Name an angle less than <math>90^\circ</math>.</p> <p>Answer _____ (1 mark)</p> <p>(b) Which angle is APPROXIMATELY one-third of a whole turn?</p> <p>Answer _____ (1 mark)</p> <p>(c) Which angles TOGETHER have the SAME measure as a half turn?</p> <p>Answer _____ (1 mark)</p>		38.			

No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>			
			KC	AT	PS	
39.	<p>XY is a line of symmetry of the incomplete figure ABCD shown below.</p>  <p>(a) Complete the drawing of ABCD. (2 marks)</p> <p>(b) Circle the term from the list below that BEST describes ABCD.</p> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>Parallelogram      Square</p> <p>Quadrilateral      Rhombus</p> </div> <p>(1 mark)</p>		39.			
<b>DO NOT WRITE HERE</b>			<b>KC (2)</b>	<b>AT (5)</b>	<b>PS (3)</b>	<b>TOTAL (10)</b>

No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>		
			KC	AT	PS
40.	<p>The incomplete graph below shows the marks that John scored in Mathematics each day during a particular week.</p>  <p>John scored a total of 80 marks for that week. Complete the graph to show how many marks he scored on Friday. (2 marks)</p>		40.		
DO NOT WRITE HERE			KC (1)	AT (1)	PS (0)
			TOTAL (2)		

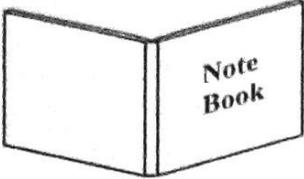
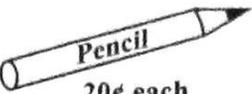
SECTION III

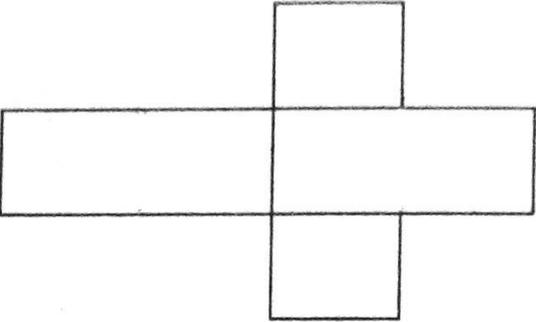
EACH question is worth 5 marks. Answer ALL questions.  
Show ALL working in the Working Column.

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
41.	<p>Jamie uses dots to create a set of patterns as shown below.</p>  <p>(a) How many dots are in the FOURTH (4<sup>th</sup>) pattern?</p> <p>Answer _____ dots (1 mark)</p> <p>(b) Draw the FIFTH and SIXTH patterns in the space on the diagram.</p> <p>(2 marks)</p> <p>(c) How many dots are in the EIGHTH pattern?</p> <p>Answer _____ dots (2 marks)</p>				
			41.		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
42.	<p>A farmer harvested 600 peppers from his garden. He sold 90% of the peppers and gave the remainder to a children's home.</p> <p>(a) (i) Calculate the number of peppers the farmer sold.</p> <p>Answer _____ peppers <b>(2 marks)</b></p> <p>(ii) How many peppers did he give away?</p> <p>Answer _____ peppers <b>(1 mark)</b></p> <p>(b) The farmer sold the peppers at 5 for \$8.00. Calculate how much money he made from the peppers sold in Part (a).</p> <p>Answer \$ _____ <b>(2 marks)</b></p>				
					42.
<b>DO NOT WRITE HERE</b>			<b>KC (3)</b>	<b>AT (5)</b>	<b>PS (2)</b>
			<b>TOTAL (10)</b>		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
43.	<p>Ms Brown borrowed \$1200 at 20% simple interest for 2 years.</p> <p>(a) How much interest did she pay?</p> <p>Answer \$ _____ (2 marks)</p> <p>(b) How much money did she repay ALTOGETHER?</p> <p>Answer \$ _____ (1 mark)</p> <p>(c) Ms Brown repaid the TOTAL amount in EQUAL monthly payments.</p> <p>How much did she pay EACH month?</p> <p>Answer \$ _____ (2 marks)</p>				
			43.		

No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>																				
			KC	AT	PS																		
44.	<p>The pictures below show the costs of notebooks, erasers and pencils.</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p><b>Note Book</b> \$1.50 each</p> </div> <div style="text-align: center;">  <p><b>Eraser</b> 2 for \$1.00</p> </div> <div style="text-align: center;">  <p><b>Pencil</b> 20¢ each</p> </div> </div> <p>Use the information to complete the table below.</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th rowspan="2"></th> <th colspan="3" style="text-align: center;">Number of Items</th> <th rowspan="2" style="text-align: center;">Total Cost</th> </tr> <tr> <th style="text-align: center;">Notebooks</th> <th style="text-align: center;">Erasers</th> <th style="text-align: center;">Pencils</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">(a)</td> <td style="text-align: center;">3</td> <td style="text-align: center;">6</td> <td style="text-align: center;">15</td> <td></td> </tr> <tr> <td style="text-align: center;">(b)</td> <td style="text-align: center;">3</td> <td style="text-align: center;">—</td> <td style="text-align: center;">15</td> <td style="text-align: center;">\$10.00</td> </tr> </tbody> </table> <p style="text-align: right; margin-right: 50px;">(5 marks)</p>		Number of Items			Total Cost	Notebooks	Erasers	Pencils	(a)	3	6	15		(b)	3	—	15	\$10.00		44.		
	Number of Items			Total Cost																			
	Notebooks	Erasers	Pencils																				
(a)	3	6	15																				
(b)	3	—	15	\$10.00																			
<b>DO NOT WRITE HERE</b>			<b>KC (3)</b>	<b>AT (5)</b>	<b>PS (2)</b>	<b>TOTAL (10)</b>																	

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
45.	<p><b>Item 45</b> refers to the figure below.</p>  <p>(a) Draw TWO lines on the figure above so that it forms the net of a solid. <b>(2 marks)</b></p> <p>(b) Name the solid formed when the net is folded.  Answer _____ <b>(1 mark)</b></p> <p>(c) The solid formed has _____ edges and _____ vertices. <b>(2 marks)</b></p>					
					45.	
<b>DO NOT WRITE HERE</b>			<b>KC (1)</b>	<b>AT (2)</b>	<b>PS (2)</b>	<b>TOTAL (5)</b>

No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>													
			KC	AT	PS											
46.	<p>The points scored by Sam for 5 games are given in the table below.</p> <table border="1" data-bbox="203 462 803 619"> <thead> <tr> <th>Game 1</th> <th>Game 2</th> <th>Game 3</th> <th>Game 4</th> <th>Game 5</th> </tr> </thead> <tbody> <tr> <td>34</td> <td>29</td> <td>43</td> <td>34</td> <td>55</td> </tr> </tbody> </table> <p>(a) What is the modal number of points scored?</p> <p>Answer _____ (1 mark)</p> <p>(b) Calculate the mean number of points scored for a game.</p> <p>Answer _____ (2 marks)</p> <p>(c) His mean score for 6 games was 42. Calculate his score on Game 6.</p> <p>Answer _____ (2 marks)</p>	Game 1	Game 2	Game 3	Game 4	Game 5	34	29	43	34	55		46.			
Game 1	Game 2	Game 3	Game 4	Game 5												
34	29	43	34	55												
<b>DO NOT WRITE HERE</b>			<b>KC (1)</b>	<b>AT (2)</b>	<b>PS (2)</b>	<b>TOTAL (5)</b>										

END OF TEST

IF YOU FINISH BEFORE TIME IS CALLED, CHECK YOUR WORK ON THIS TEST.

FORM SEA/ 2010

MARCH 2010

CARIBBEAN EXAMINATIONS COUNCIL

TRINIDAD AND TOBAGO

SECONDARY ENTRANCE ASSESSMENT

MATHEMATICS

*75 minutes*

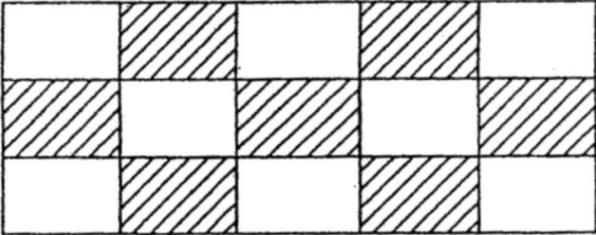
PRIMARY SCHOOL: _____ _____ _____
CENTRE NUMBER: _____

**READ THE FOLLOWING INSTRUCTIONS CAREFULLY.**

1. This test is divided into THREE sections.
2. Make sure that you understand the directions before you start to work on any section.
3. Write ALL your answers in this test booklet. Show ALL your working in the working column.
4. DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

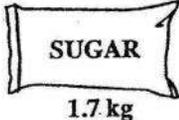
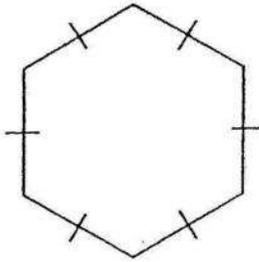
## SECTION I

Each question is worth 1 mark. Answer ALL questions.  
Show ALL working in the working column.

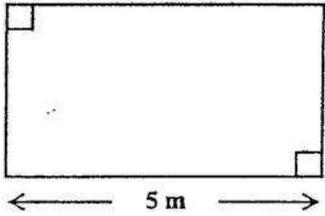
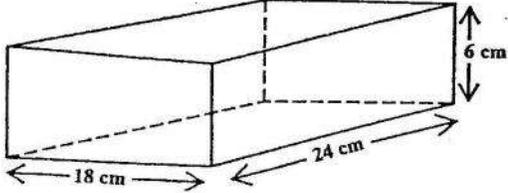
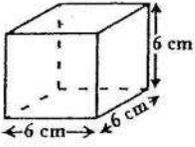
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here.								
			KC	AT	PS						
1.	<p>Write in figures:</p> <p>One million, two thousand and three</p> <p>Answer _____</p>										
2.	<p>Express the SHADED PART as a COMMON FRACTION of the whole shape.</p>  <p>Answer _____</p>										
3.	<p>Complete the table below.</p> <table border="1" data-bbox="347 1514 813 1745"> <thead> <tr> <th>Common Fraction</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td></td> <td>15%</td> </tr> <tr> <td><math>\frac{3}{5}</math></td> <td>60%</td> </tr> </tbody> </table>	Common Fraction	Percentage		15%	$\frac{3}{5}$	60%				
Common Fraction	Percentage										
	15%										
$\frac{3}{5}$	60%										

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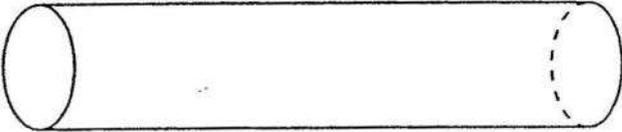
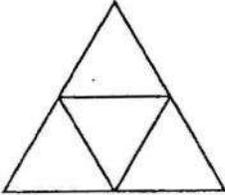
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
4.	<p>What number, N, should go in the circle to make the operation CORRECT?</p> <div style="text-align: center;"> <pre> graph TD     N((N)) --&gt; A[Subtract 8]     A --&gt; B[Divide by 4]     B --&gt; C[8]                     </pre> </div> <p>Answer N = _____</p>				
5.	<p>Write in the box the number that CORRECTLY completes the number sentence.</p> $\frac{2}{3} = \frac{\square}{12}$				
6.	<p>At the market, a mother bought some fruits: 3 oranges, 4 pears and 5 mangoes. What FRACTION of the fruits was pears?</p> <p>Answer _____</p>				
7.	<p>Ken eats 4 plums each day. How many plums would he eat in TWO weeks?</p> <p>Answer _____</p>				

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
8.	<p>At a school bazaar, every seventh student who entered in the first hour was admitted free.</p> <p>If 46 students entered in the first hour, how many of them entered free?</p> <p>Answer _____</p>				
9.	<p>Which of the two sacks has the SMALLER mass?</p> <div style="display: flex; justify-content: center; align-items: center; gap: 50px;"> <div style="text-align: center;">  <p>SUGAR 1.7 kg</p> </div> <div style="text-align: center;">  <p>FLOUR 1690 g</p> </div> </div> <p>Answer _____</p>				
10.	<p>A ball is bought for \$35.00 and sold for \$48.00. Calculate the profit made in dollars.</p> <p>Answer \$ _____</p>				
11.	<p>A garden has the shape shown below with all its sides of equal length. The perimeter is 72 metres.</p> <div style="text-align: center;">  </div> <p>What is the length of ONE side of the garden?</p> <p>Answer _____ metres</p>				

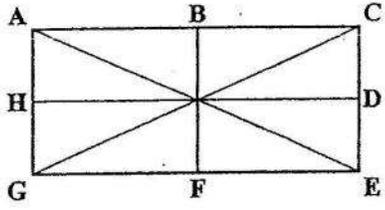
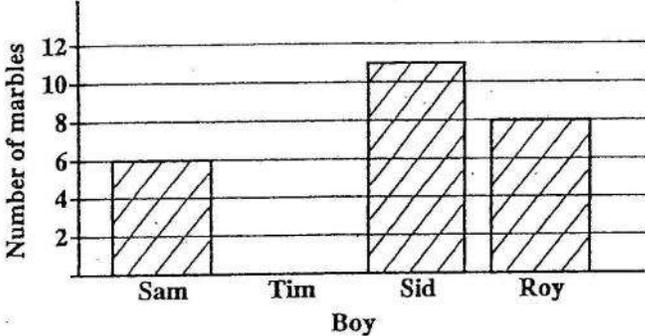
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No	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
12.	<p>Sally began reading a book at 8:17 p.m. She took a break after reading for half of an hour. At what time did she take a break?</p> <p>Answer _____ p.m.</p>				
13.	<p>A rectangular garden bed is 5 metres long and has an area of 18 square metres.</p>  <p>How wide is the garden bed?</p> <p>Answer _____ metres (m)</p>				
14.	<p>A rectangular box is 18 cm wide, 24 cm long and 6 cm deep.</p>  <p>How many cubes with edges of 6 cm will completely fill the box?</p>  <p>Answer _____ cubes</p>				

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
15.	<p>Jessica bought a blouse for \$80.00 and sold it for \$60.00.</p> <p>Calculate the percentage loss on the sale.</p> <p>Answer _____</p>				
16.	<p>A picture of a solid is shown below.</p>  <p>What is the name of the solid?</p> <p>Answer _____</p>				
17.	<p>A net of a solid is shown below.</p>  <p>What is the name of the solid formed when the net is folded?</p> <p>Answer _____</p>				

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>		
			KC	AT	PS
18.	<p>The diagram below is a rectangle. The points B, D, F and H are midpoints of its sides.</p>  <p>Name ONE line of symmetry of the rectangle.</p> <p>Answer _____</p>				
19.	<p>The incomplete bar graph shows the number of marbles owned by 3 of 4 boys in a club.</p>  <p>Together the 4 boys owned 30 marbles. How many marbles did Tim own?</p> <p>Answer _____ marbles</p>				
20.	<p>A bowler obtained the following number of wickets in 9 matches:</p> <p>3, 1, 4, 6, 4, 2, 4, 1, 3</p> <p>What is the MODAL number of wickets?</p> <p>Answer _____</p>				

## SECTION II

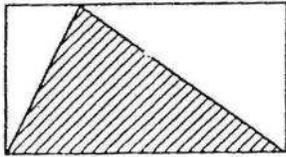
Each question is worth either 2 or 3 marks. Answer ALL questions.  
Show ALL working in the working column.

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here										
			KC	AT	PS								
21.	<p>There are 60 donuts in a glass case. Eighteen of them are chocolate coated. What percentage of donuts is NOT chocolate coated?</p> <p>Answer _____ (2 marks)</p>												
22.	<p>If 75% of a class of 32 students are present, how many students are absent from the class?</p> <p>Answer _____ (2 marks)</p>												
23.	<p>Three mixed numbers from the set given below will produce a WHOLE number when added.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;"><math>3\frac{1}{2}</math></td> <td style="text-align: center;"><math>1\frac{1}{8}</math></td> <td style="text-align: center;"><math>2\frac{7}{12}</math></td> <td style="text-align: center;"><math>4\frac{3}{8}</math></td> </tr> </table> <p>What are the THREE numbers?</p> <p>Answer _____ (2 marks)</p>	$3\frac{1}{2}$	$1\frac{1}{8}$	$2\frac{7}{12}$	$4\frac{3}{8}$								
$3\frac{1}{2}$	$1\frac{1}{8}$	$2\frac{7}{12}$	$4\frac{3}{8}$										
24.	<p>The same pattern is followed throughout in the sequence below.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">3</td> <td style="text-align: center;">5</td> <td style="text-align: center;">8</td> <td style="text-align: center;">13</td> <td style="width: 20px;"></td> <td style="width: 20px;"></td> </tr> </table> <p>What are the next TWO numbers in the sequence?</p> <p>Answer _____ (2 marks)</p>	1	2	3	5	8	13						
1	2	3	5	8	13								

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
25.	<p>Sammy planted 526 heads of lettuce. Don planted 98 more than Sammy and 49 more than Linda.</p> <p>(a) How many heads of lettuce did Don plant?</p> <p>Answer _____ (1 mark)</p> <p>(b) How many heads of lettuce did Linda plant?</p> <p>Answer _____ (1 mark)</p> <p>(c) Calculate the number of heads of lettuce planted ALTOGETHER.</p> <p>Answer _____ (1 mark)</p>				
26.	<p>A school received 25 boxes of pencils. Each box contained 36 pencils. The pencils were distributed EQUALLY among 9 classes. How many pencils did EACH class receive?</p> <p>Answer _____ (3 marks)</p>				
27.	<p>Calculate:</p> $7\frac{2}{5} - 2\frac{1}{4}$ <p>Answer _____ (3 marks)</p>				

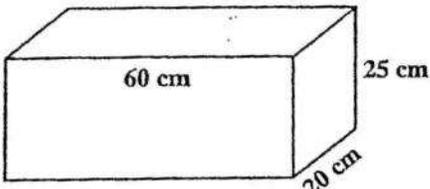
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No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here										
			KC	AT	PS								
28.	<p>The table below shows the number of marks awarded for EACH correct answer in Sections A, B and C of a test.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Section</th> <th>Number of Marks for Each Correct Answer</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>1 mark</td> </tr> <tr> <td>B</td> <td>3 marks</td> </tr> <tr> <td>C</td> <td>5 marks</td> </tr> </tbody> </table> <p>Jessica got 16 items correct in Section A and 8 items correct in Section B.</p> <p>How many items must Jessica get correct in Section C to earn a score of 50 on the test?</p> <p>Answer _____ (3 marks)</p>	Section	Number of Marks for Each Correct Answer	A	1 mark	B	3 marks	C	5 marks				
Section	Number of Marks for Each Correct Answer												
A	1 mark												
B	3 marks												
C	5 marks												
29.	<p>A discount of 15% was given for each cash purchase at a shoe store. How much will Derrick pay cash for a pair of shoes marked at \$600.00?</p> <p>Answer _____ (2 marks)</p>												
30.	<p>In the diagram below, the area of the shaded triangle is <math>36 \text{ cm}^2</math>.</p>  <p>What is the area of the rectangle?</p> <p>Answer _____ (2 marks)</p>												

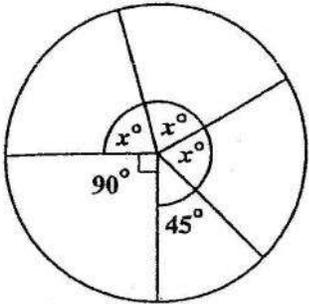
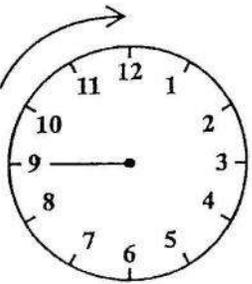
GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>		
			KC	AT	PS
31.	<p>The diagram below shows the distances that David covered in a triathlon.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>Name: <u>David</u></p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">             600 metres         </div> <div style="text-align: center;">             6.5 kilometres         </div> <div style="text-align: center;">             8 kilometres         </div> </div> </div> <p>How many kilometres did David cover during the entire event?</p> <p style="text-align: right;">Answer _____ kilometres (2 marks)</p>				
32.	<p>Tony borrowed \$12 000 from a bank at a rate of 8% per annum.</p> <p>(a) Calculate the simple interest if he agreed to repay the loan in 2 years.</p> <p style="text-align: right;">Answer _____</p> <p>(b) How much will Tony have to repay the bank?</p> <p style="text-align: right;">Answer _____ (3 marks)</p>				
33.	<p>Michael left home at 7:37 a.m. and arrived at school 43 minutes later. He reached school 5 minutes before the bell rang. At what time did the bell ring?</p> <p style="text-align: right;">Answer _____ (3 marks)</p>				

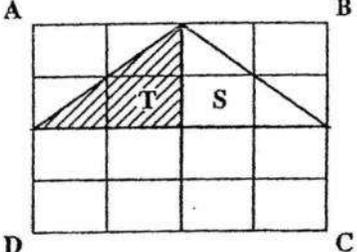
GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
34.	<p>Mr. Ben has to be at work at 9:00 a.m. He must get dressed, eat and walk to work. After getting out of bed, it takes him 15 minutes to get dressed, then 20 minutes to eat, and a further 35 minutes to walk to work.</p> <p>(a) How long does it take Mr. Ben to get dressed, eat and walk to work?</p> <p>Answer _____ (1 mark )</p> <p>(b) What is the LATEST time Mr. Ben should get out of bed in order to get to work on time?</p> <p>Answer _____ (2 marks)</p>				
35.	<p>The container shown below is used to fill the fish tank next to it.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Container</p> </div> <div style="text-align: center;">  <p>Fish Tank</p> </div> </div> <p>(a) What is the volume, in LITRES, of the fish tank? (1000 cm<sup>3</sup> = 1 litre)</p> <p>Answer _____ litres (2 marks)</p> <p>(b) How many full containers are needed to fill the tank completely?</p> <p>Answer _____ (1 mark )</p>				

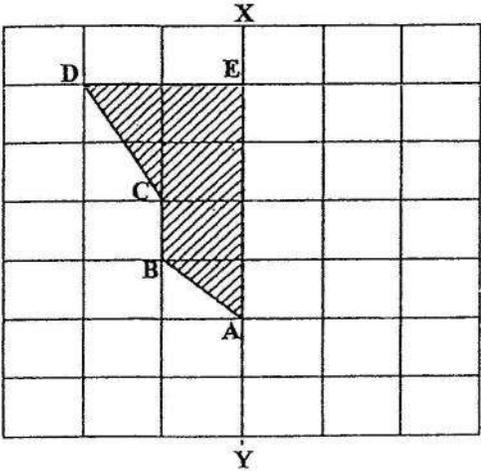
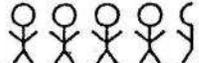
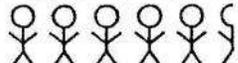
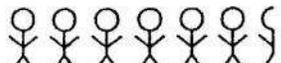
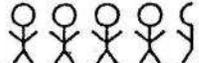
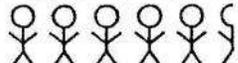
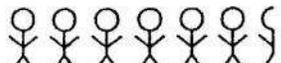
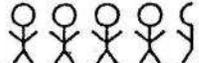
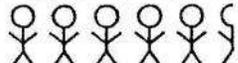
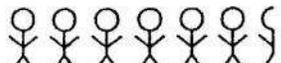
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No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
36.	<p>The three angles labelled <math>x^\circ</math> in the diagram below are equal in size.</p>  <p>Calculate the value of <math>x</math>.</p> <p>Answer _____ (2 marks)</p>				
37.	<p>The minute hand of a clock moved from 9 to 2 in the direction of the arrow shown.</p>  <p>Through how many degrees did the minute hand move?</p> <p>Answer _____ (2 marks)</p>				

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
38.	<p>The shaded triangle T below was moved to the position of triangle S.</p>  <p>(a) Name the movement.</p> <p>Answer _____ (1 mark)</p> <p>(b) How many shaded triangles EXACTLY like T would completely cover the rectangle ABCD?</p> <p>Answer _____ (1 mark)</p> <p>(c) Circle the term from the list below which BEST describes the triangle formed when T and S are combined as shown above.</p> <p>Right-angled    Isosceles    Equilateral</p> <p>(1 mark)</p>				

GO ON TO THE NEXT PAGE

No	TEST ITEMS	WORKING COLUMN	Do Not Write Here								
			KC	AT	PS						
39.	<p>The diagram below shows an incomplete shape.</p>  <p>Complete the shape so that XY is a line of symmetry. (3 marks)</p>										
40.	<p>The pictograph shows the first choice of sports for boys in Standard 5.</p> <table border="1" data-bbox="272 1228 735 1472"> <tr> <td>Volleyball</td> <td></td> </tr> <tr> <td>Football</td> <td></td> </tr> <tr> <td>Cricket</td> <td></td> </tr> </table> <p> = 10 boys</p> <p>How many boys indicated their choice of sports?</p> <p>Answer _____ (2 marks)</p>	Volleyball		Football		Cricket					
Volleyball											
Football											
Cricket											

## SECTION III

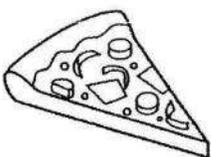
Each question is worth 5 marks. Answer ALL questions.  
Show ALL working in the working column.

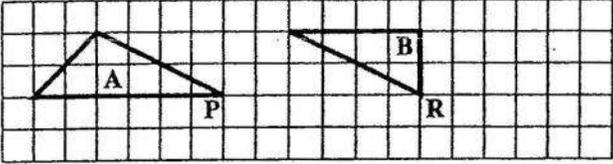
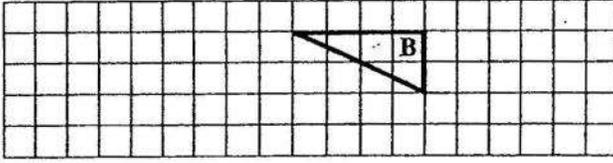
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
41.	<p>At a school fair, 30% of the pies sold had cheese filling, 25% had beef filling and the remaining 90 pies had potato filling.</p> <p>(a) What percentage of pies had potato filling?</p> <p style="text-align: right;">Answer _____ (1 mark)</p> <p>(b) How many pies were sold at the fair?</p> <p style="text-align: right;">Answer _____ (2 marks)</p> <p>(c) How many MORE cheese pies than beef pies were sold at the fair?</p> <p style="text-align: right;">Answer _____ (2 marks)</p>				

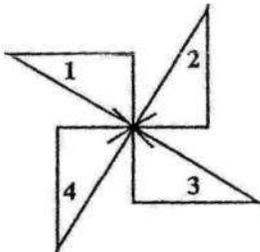
GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
42.	<p>The pupils in Standard Five are seated on benches which can seat either 4 pupils (four-seaters) or 3 pupils (three-seaters). <b>Five four-seaters and fifteen three-seaters are available.</b></p> <p>(a) What is the <b>LARGEST</b> number of pupils that can be seated if <b>ONLY</b> the four-seaters are used?</p> <p>Answer _____ (1 mark)</p> <p>(b) On Tuesday, 38 pupils are to be seated and <b>ALL</b> the four-seaters <b>MUST</b> be used. What is the <b>SMALLEST</b> number of three-seaters that are needed?</p> <p>Answer _____ (2 marks)</p> <p>(c) On Thursday, 48 pupils are to be seated. How many of <b>EACH</b> type of benches are needed so that <b>ALL</b> seats are occupied and <b>BOTH</b> types of benches are used?</p> <p>Answer _____ four-seaters _____ three-seaters (2 marks)</p>				
43.	<p>Daniel is making tickets for his drama club from sheets of bristol board measuring 60 cm by 45 cm.</p> <p>(a) Calculate the area of <b>ONE</b> sheet of bristol board.</p> <p>Answer _____ <math>\text{cm}^2</math> (1 mark)</p> <p>(b) What is the <b>LARGEST</b> number of tickets measuring 9 cm by 3 cm that Daniel can make from <b>ONE</b> sheet of bristol board?</p> <p>Answer _____ (2 marks)</p> <p>(c) " A ticket cost \$10.00. Daniel collected \$5000.00 when all the tickets were sold. How many sheets of bristol board did he use?</p> <p>Answer _____ (2 marks)</p>				

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>														
			KC	AT	PS												
44.	<p>The diagrams below show the cost of a slice of pizza, a scoop of ice cream and a drink.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>\$8.00 per slice</p> </div> <div style="text-align: center;">  <p>\$5.00 per scoop</p> </div> <div style="text-align: center;">  <p>\$4.00</p> </div> </div> <p>(a) Mark has 3 slices of pizza, 1 drink and 2 scoops of ice cream. Calculate the cost of his meal.</p> <p style="text-align: right;">Answer \$ _____ (2 marks)</p> <p>(b) Sandy wishes to get exactly \$20.00 in change from a \$50.00 note after purchasing a meal. Suggest a possible combination of the THREE items that she can buy.</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 100px;">_____</td> <td>slice(s) of pizza</td> <td style="text-align: right;">\$</td> </tr> <tr> <td>_____</td> <td>scoop(s) of ice cream</td> <td style="text-align: right;">\$</td> </tr> <tr> <td>_____</td> <td>drink(s)</td> <td style="text-align: right;">\$</td> </tr> <tr> <td></td> <td>Total</td> <td style="text-align: right;">\$ _____</td> </tr> </table> <p style="text-align: right;">(3 marks)</p>	_____	slice(s) of pizza	\$	_____	scoop(s) of ice cream	\$	_____	drink(s)	\$		Total	\$ _____				
_____	slice(s) of pizza	\$															
_____	scoop(s) of ice cream	\$															
_____	drink(s)	\$															
	Total	\$ _____															

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
45.	<p>On the grid below are 2 triangles labelled A and B.</p>  <p>Triangle A slides to the right until the corner at P touches the corner R.</p> <p>(a) How many units did triangle A slide?</p> <p>Answer _____ (1 mark)</p> <p>(b) Draw the combined shape on the new grid. Triangle B is drawn in position for you.</p>  <p>(2 marks)</p> <p>(c) What is the name given to the combined shape of the two triangles?</p> <p>Answer _____ (1 mark)</p> <p>(d) How many right angles are there in the combined shape?</p> <p>Answer _____ (1 mark)</p>				

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here																					
			KC	AT	PS																			
46.	<p>Jeff is playing a game in which he scores points by spinning a pinwheel similar to the one shown below. It is possible to score 1, 2, 3 or 4 points.</p>  <p>Jeff spins the pinwheel twenty times and records his scores in the tally chart below. The tally chart is incomplete.</p> <table border="1" data-bbox="251 892 917 1144"> <thead> <tr> <th>Points Scored</th> <th>Tally</th> <th>Frequency</th> <th>Total Points</th> </tr> </thead> <tbody> <tr> <td>1</td> <td> </td> <td>1</td> <td>1</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td>14</td> </tr> <tr> <td>3</td> <td>   </td> <td>3</td> <td>9</td> </tr> <tr> <td>4</td> <td></td> <td>9</td> <td>36</td> </tr> </tbody> </table> <p>(a) Complete the tally chart above by filling in the missing information. (2 marks)</p> <p>(b) What is the modal points scored? Answer _____ (1 mark)</p> <p>(c) How many points did Jeff score for the twenty spins? Answer _____ (1 mark)</p> <p>(d) Calculate the mean number of points Jeff scored for the twenty spins. Answer _____ (1 mark)</p>	Points Scored	Tally	Frequency	Total Points	1		1	1	2			14	3		3	9	4		9	36			
Points Scored	Tally	Frequency	Total Points																					
1		1	1																					
2			14																					
3		3	9																					
4		9	36																					

END OF TEST

IF YOU FINISH BEFORE TIME IS CALLED, CHECK YOUR WORK ON THIS TEST.

TEST CODE **043401**

**FORM SEA/2004**

MARCH 2004

**CARIBBEAN EXAMINATIONS COUNCIL**

**Nº 07088**

**TRINIDAD AND TOBAGO**

**Nº 07088**

**SECONDARY ENTRANCE ASSESSMENT**

**MATHEMATICS**

*75 minutes*

**PRIMARY  
SCHOOL:** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
**CENTRE NUMBER:** \_\_\_\_\_

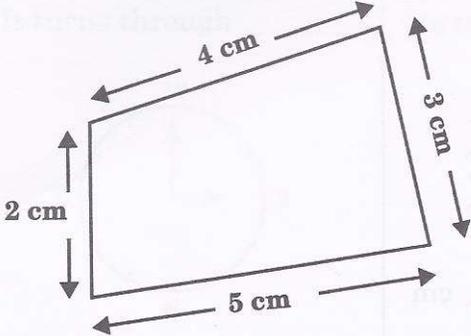
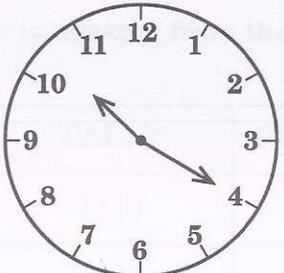
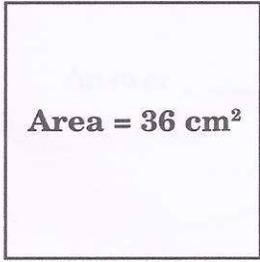
**READ THE FOLLOWING INSTRUCTIONS CAREFULLY.**

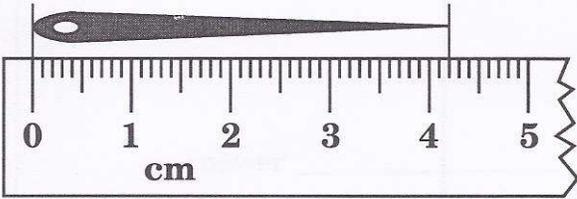
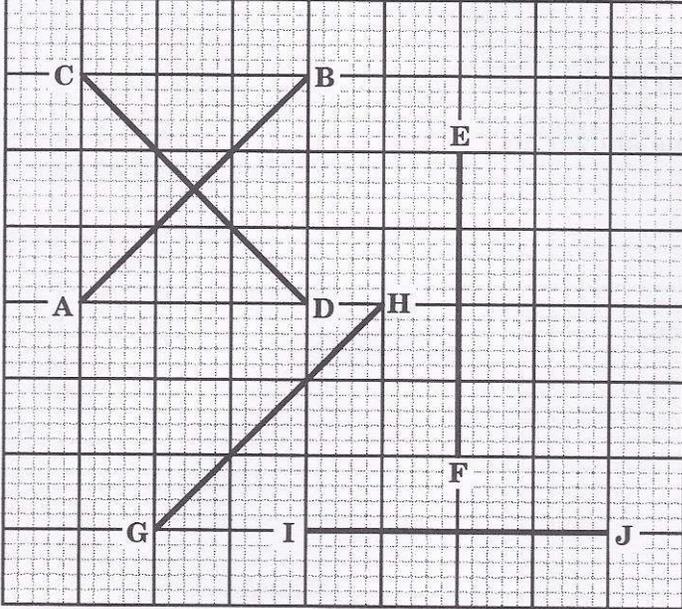
1. This test is divided into **THREE** sections.
2. Make sure that you understand the directions before you start to work on any section.
3. Write **ALL** your answers in this test booklet. Show **ALL** your working in the working column.
4. **DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.**

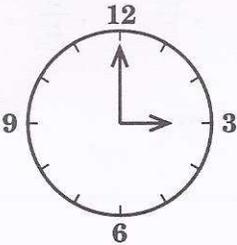
SECTION I

EACH question in this section is worth 1 mark.

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
1.	$\begin{array}{r} 2\ 978 \\ - 1\ 404 \\ \hline \\ \hline \end{array}$ <p>Answer _____</p>		
2.	<p>Write in figures: ten thousand and twelve.</p> <p>Answer _____</p>		
3.	<p>What is the LARGEST number that can be formed using the digits 2, 3, 4 and 6?</p> <p>Answer _____</p>		
4.	<p>Write the symbol, &gt; or &lt;, in the box below to complete the statement correctly.</p> <p>0.12 <input type="text"/> 1.20</p> <p>Answer _____</p>		
5.	$5\frac{3}{9} + 7\frac{1}{9} =$ <p>Answer _____</p>		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
6.	<p>Calculate the perimeter of the shape below.</p>  <p>Answer _____ cm</p>		
7.	 <p>4:10    10:20    4:30    10:04</p> <p>Choose from the box above, the time shown on the clock.</p> <p>Answer _____</p>		
8.	<p>The area of the square below is <math>36 \text{ cm}^2</math>.</p>  <p>What is the length of EACH side?</p> <p>Answer _____ cm</p>		

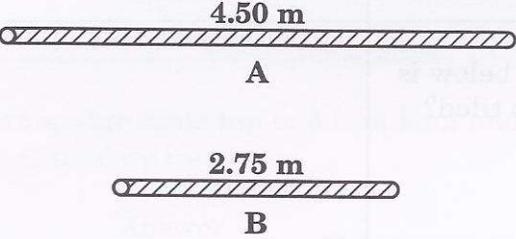
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
9.	<p>State the length of the needle shown below.</p>  <p>Answer _____ cm</p>		
10.	<p>Complete the statement below.</p> <p><math>\frac{1}{8}</math> kg = _____ g</p> <p>Answer _____ g</p>		
11.	<p>The diagram below shows five lines, AB, CD, EF, GH and IJ.</p>  <p>Which of the lines is PARALLEL to AB?</p> <p>Answer _____</p>		

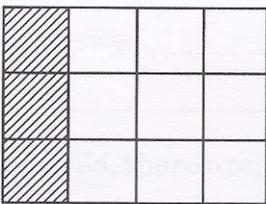
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here												
12.	<p>The long hand on the clock makes a complete turn. It turns through _____ degrees.</p>  <p>Answer _____</p>														
13.	<p>What number is missing from the table below?</p> <table border="1" data-bbox="228 1058 914 1388"> <thead> <tr> <th>FLAVOUR</th> <th>TALLY</th> <th>FREQUENCY</th> </tr> </thead> <tbody> <tr> <td>Vanilla</td> <td>    </td> <td>4</td> </tr> <tr> <td>Rum and raisin</td> <td>HHH    </td> <td></td> </tr> <tr> <td>Chocolate</td> <td>HHH HHH  </td> <td>11</td> </tr> </tbody> </table> <p>Answer _____</p>	FLAVOUR	TALLY	FREQUENCY	Vanilla		4	Rum and raisin	HHH		Chocolate	HHH HHH	11		
FLAVOUR	TALLY	FREQUENCY													
Vanilla		4													
Rum and raisin	HHH														
Chocolate	HHH HHH	11													

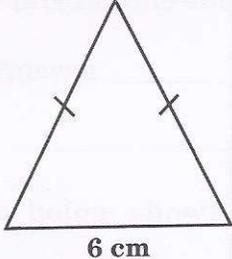
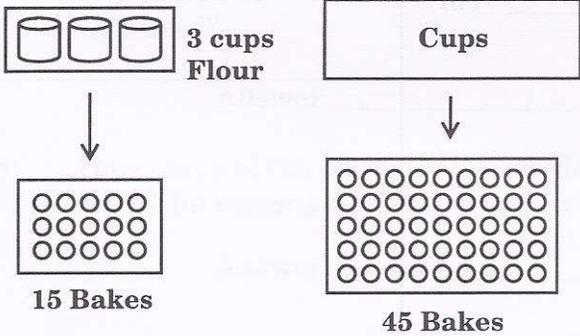
**SECTION II**

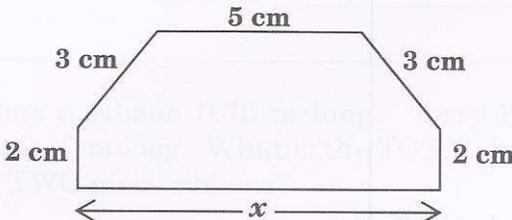
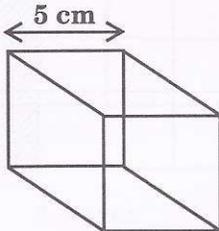
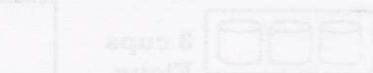
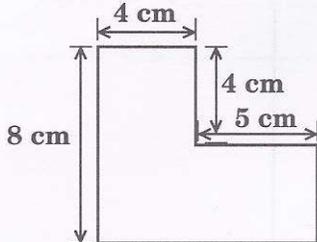
**EACH question in this section is worth 2 marks.  
Show ALL your working in the working column.**

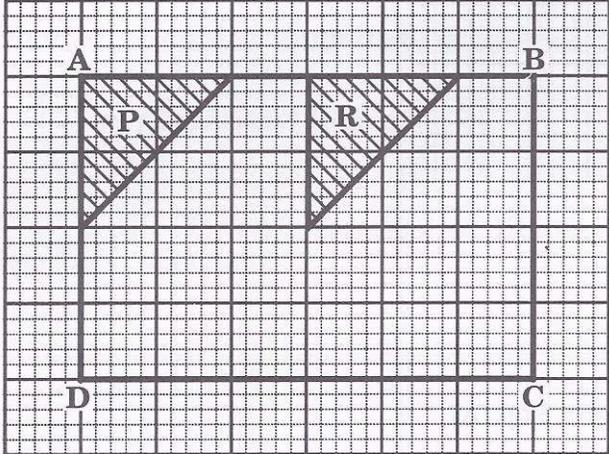
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here										
14.	Add $\frac{1}{3}$ and $\frac{1}{4}$  Answer _____												
15.	Emile took 5 minutes to solve a problem. Kwame took $6\frac{3}{4}$ minutes to solve the same problem. How much MORE time than Emile did Kwame take?  Answer _____ minutes												
16.	In a class of 24 pupils, there are 15 girls. What fraction are boys?  Answer _____												
17.	The table below shows how pupils get to school. <table border="1" data-bbox="321 1499 915 1776"><thead><tr><th>How pupils get to school</th><th>No. of pupils</th></tr></thead><tbody><tr><td>Bus</td><td>102</td></tr><tr><td>Maxi-Taxi</td><td>215</td></tr><tr><td>Private Cars</td><td>172</td></tr><tr><td>Walk</td><td>_____</td></tr></tbody></table> There are 600 pupils in the school. How many pupils walk to school?  Answer _____	How pupils get to school	No. of pupils	Bus	102	Maxi-Taxi	215	Private Cars	172	Walk	_____		
How pupils get to school	No. of pupils												
Bus	102												
Maxi-Taxi	215												
Private Cars	172												
Walk	_____												

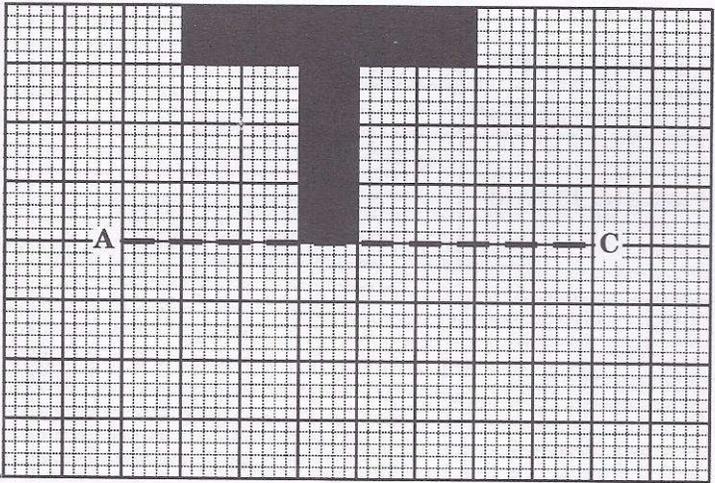
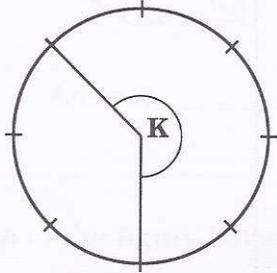
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
18.	<p>Write the following fractions in order of size beginning with the SMALLEST.</p> $\frac{3}{4}, \quad \frac{2}{5}, \quad \frac{1}{2}$ <p>Answer _____</p>		
19.	<p>A plumber bought 2 lengths of pipes, A and B, as shown below.</p> <div style="text-align: center;"></div> <p>How much longer is A than B?</p> <p>Answer _____ m</p>		
20.	<p>Complete the following sequence.</p> <p>2, 3, 5, 8, 12, _____, _____.</p> <p>Answer _____</p>		
21.	<p>Lee had \$40.00. He gave his sister 60% of the amount. How much money did Lee's sister receive?</p> <p>Answer \$ _____</p>		

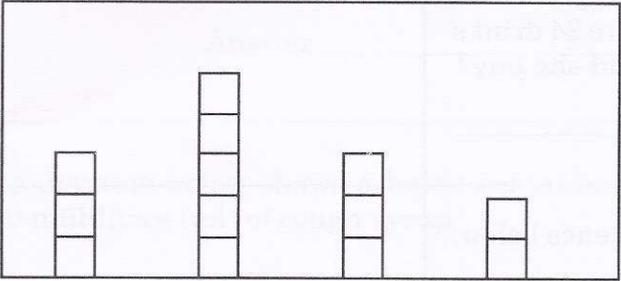
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
22.	<p>Julia played 20 tennis matches. She won 6, drew 6 and lost all of the others. What <b>percentage</b> of the matches did she lose?</p> <p>Answer _____</p>		
23.	<p>Kim has a ribbon 0.70 m long. Terry has a ribbon 0.50 m long. What is the <b>TOTAL</b> length of the <b>TWO</b> girls' ribbons?</p> <p>Answer _____</p>		
24.	<p>The shaded portion of the wall shown below is tiled. What <b>percentage</b> of the wall is tiled?</p>  <p>Answer _____</p>		
25.	<p>A worker from the telephone company collected 34 twenty-five-cent coins from a pay phone. Write the <b>TOTAL</b> amount collected in dollars and cents.</p> <p>Answer \$ _____</p>		
26.	$  \begin{array}{r}  \text{m} \quad \text{cm} \\  5 \quad 98 \\  + 6 \quad 42 \\  \hline  \hline  \end{array}  $ <p>Answer _____</p>		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
27.	<p>The perimeter of the <b>isosceles</b> triangle below is 26 cm.</p>  <p>What is the length of ONE of the marked sides?</p> <p>Answer _____ cm</p>		
28.	<p>A rectangular table top is 4.5 m long and 3 m wide. Calculate its area.</p> <p>Answer _____ m<sup>2</sup></p>		
29.	<p>3 cups of flour-mix can make 15 fried bakes of the same size. How many cups of flour will make 45 of these fried bakes?</p>  <p>Answer _____</p>		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
30.	<p>The perimeter of the given polygon is 25 cm. Find the length of the side marked <math>x</math>.</p>  <p>Answer _____ cm</p>		
31.	<p>Find the volume of the cube below.</p>  <p>Answer _____ <math>\text{cm}^3</math></p>		
32.	<p>Find the area of the figure below.</p>  <p>Answer _____ <math>\text{cm}^2</math></p>		

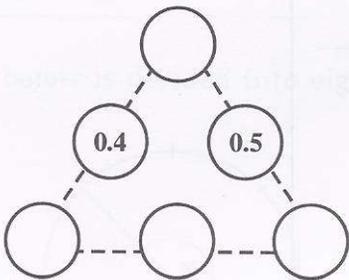
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
33.	<p>A radio programme starts at 3:20 p.m. and ends two hours and thirty minutes later. At what time does the programme end?</p> <p>Answer _____ pm</p>		
34.	<p>The diagram below shows triangle P and triangle R.</p>  <p>(a) The triangle was moved from position P to position R. What type of movement was used?</p> <p>Answer _____</p> <p>(b) How many of the triangles are needed to cover the rectangle ABCD completely?</p> <p>Answer _____</p>		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
35.	<p>Flip the shaded shape below about the dotted line, AC. Show the result on the grid provided below.</p>  <p>Answer _____</p>		
36.	<p>The circle below is divided into eight EQUAL parts.</p>  <p>What is the size of the angle labelled K?</p> <p>Answer _____</p>		

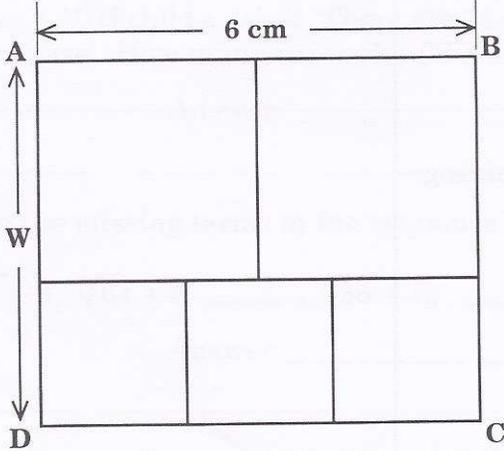
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
37.	<p>The graph below shows Brandon's fish collection.</p> <p style="text-align: center;"><b>Brandon's Fish Collection</b></p>  <p style="text-align: center;"><b>Goldfish Guppies Angelfish Fighters</b></p> <p><input type="checkbox"/> represents 3 fishes</p> <p>What is the TOTAL number of fishes in Brandon's collection?</p> <p style="text-align: center;">Answer _____</p>		

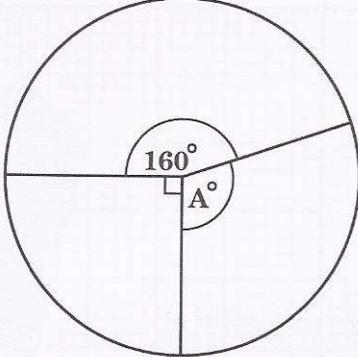
SECTION III

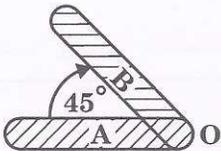
EACH question in this section is worth 3 marks.  
Show ALL your working in the working column.

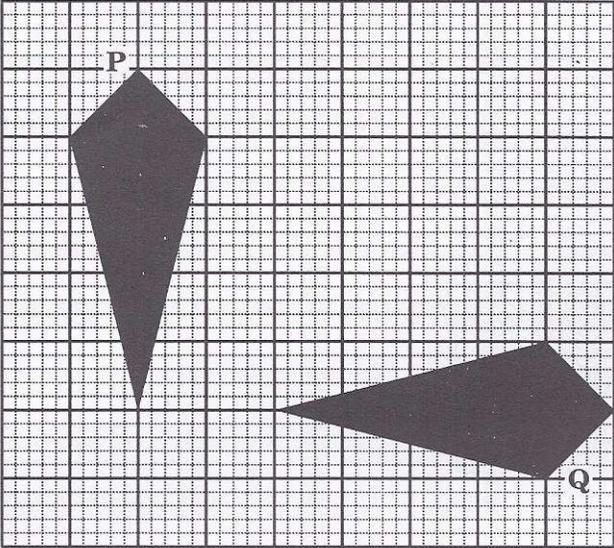
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
38.	<p>A school has 495 children. The Principal wants to give EACH child a drink. There are 24 drinks in one case. How many cases should she buy?</p> <p>Answer _____</p>		
39.	<p>Write the missing terms in the sequence below.</p> <p><math>\sqrt{81} + 3</math>, <math>\sqrt{64} + 4</math>, _____, <math>\sqrt{36} + 6</math>, _____ + 7</p> <p>Answer _____</p>		
40.	<p>Write the numbers 0.1, 0.2, 0.3 and 0.6 in the circles on the sides of the triangle below. The sum of the numbers on EACH side of the triangle MUST total 0.9.</p> 		
41.	<div style="border: 2px solid black; padding: 10px; text-align: center;"><p><b>Smart Stores</b></p><p><b>DOUBLE "10" SALE!</b> <b>10% off the marked price and</b> <b>another 10% off the reduced price!</b></p></div> <p>Smart Stores offer the discount as shown above. Before the discount, the cost of a book is \$100. How much does the book cost after the discount?</p> <p>Answer \$ _____</p>		

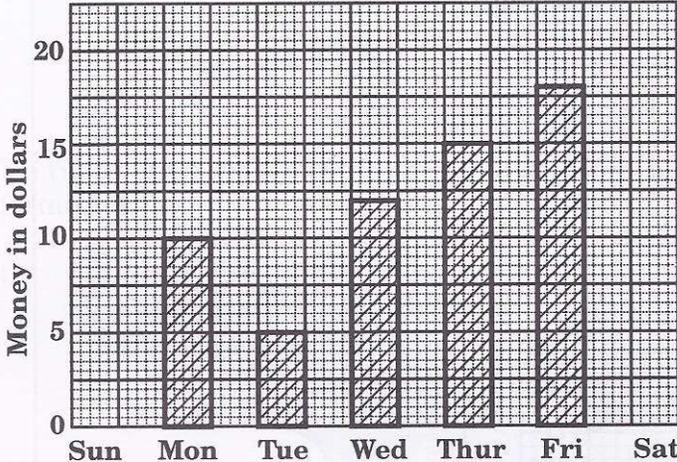
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
42.	<p>Dave left home at 3:30 p.m. and returned at 6:20 p.m. How much time, in hours and minutes, was he away from home?</p> <p>Answer _____</p>		
43.	<p>The diagram below shows a bottle containing 250 millilitres (ml) of cough syrup.</p> <div data-bbox="430 829 722 1102" style="text-align: center;"><p>The diagram shows a bottle of cough syrup with a label that reads "Cough syrup" and "250 ml". To the right of the bottle is a small cup with a label that reads "5 ml" and "1 dose" below it.</p></div> <p>Don took 2 doses per day for 5 days. If each dose is 5 ml, how many millilitres of the cough syrup remained?</p> <p>Answer _____ ml</p>		
44.	<p>The diagram below shows a balanced scale with some jelly beans and a packet of nuts.</p> <div data-bbox="316 1543 852 1711" style="text-align: center;"><p>The diagram shows a balanced scale with a triangular fulcrum. The left pan is higher and contains a packet labeled "Nuts" and four small circles representing jelly beans. The right pan is lower and contains eight small circles representing jelly beans.</p></div> <p>Each jelly bean weighs 8 grams. What is the mass of the packet of nuts?</p> <p>Answer _____</p>		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
45.	<p>Rectangle ABCD below is made with two large identical squares and three small identical squares as shown in the diagram below.</p>  <p>(a) Calculate the length of EACH of the sides of the small squares.</p> <p>Answer _____ cm</p> <p>(b) What is the width, <b>W</b>, of the rectangle ABCD?</p> <p>Answer _____ cm</p> <p>(c) Calculate the area of the rectangle ABCD.</p> <p>Answer _____ cm<sup>2</sup></p>		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
46.	<p>The angle A is marked in the diagram below.</p>  <p>acute, right angle, obtuse, reflex</p> <p>(a) Choose the term from the box that best describes angle A.</p> <p>Answer _____</p> <p>(b) Calculate the size of angle A.</p> <p>Answer _____</p>		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
47.	<p>Jagdeo used two palette sticks, A and B, to form the angle shown below.</p>  <p>He turns stick B about O so that a new angle is formed.</p> <p>(a) Complete the diagram below by drawing the new position of stick B when the size of the angle reaches <math>135^\circ</math>.</p>  <p>(b) What is the size of the turn, in degrees, made by stick, B?</p> <p>Answer _____</p>		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
48.	<p>The diagram below shows the positions P and Q of a shaded figure.</p>  <p>flip                      rectangle slide                     parallelogram turn                        quadrilateral mirror</p> <p>Choose the correct terms from the box above to complete EACH statement below.</p> <p>(a) Sue moves the figure from its position at P to the position Q using TWO movements. The two movements are _____ and _____.</p> <p>(b) The figure has four sides as shown in the diagram. The figure is a _____.</p>		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here																
49.	<p>The bar chart below represents the amount of money Carmen spends in a week.</p>  <table border="1"><caption>Money Spent by Day</caption><thead><tr><th>Day</th><th>Money Spent (dollars)</th></tr></thead><tbody><tr><td>Sun</td><td>0</td></tr><tr><td>Mon</td><td>10</td></tr><tr><td>Tue</td><td>5</td></tr><tr><td>Wed</td><td>12</td></tr><tr><td>Thur</td><td>15</td></tr><tr><td>Fri</td><td>18</td></tr><tr><td>Sat</td><td>0</td></tr></tbody></table> <p>At the beginning of the week, Carmen had \$75.00. How much money did she have left at the end of the week?</p> <p>Answer \$ _____</p>	Day	Money Spent (dollars)	Sun	0	Mon	10	Tue	5	Wed	12	Thur	15	Fri	18	Sat	0		
Day	Money Spent (dollars)																		
Sun	0																		
Mon	10																		
Tue	5																		
Wed	12																		
Thur	15																		
Fri	18																		
Sat	0																		
50.	<p>The mean age of a group of three friends is 12. Sharon, age 8, joins the group. What is the mean age of the group now?</p> <p>Answer _____</p>																		

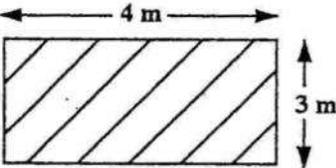
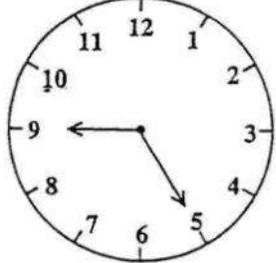
END OF TEST

IF YOU FINISH BEFORE TIME IS CALLED, CHECK YOUR WORK ON THIS TEST.

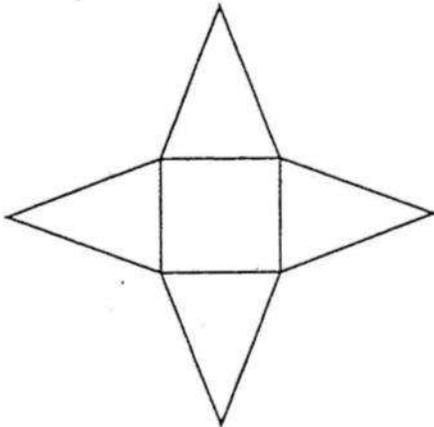
## SECTION I

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
1.	Write in figures, five hundred and three thousand, one hundred and fifty six.  Answer _____		
2.	What is the value of the digit 4 in the number 1 048 736?  Answer _____		
3.	Write $\frac{3}{100}$ as a percentage.  Answer _____ %		
4.	$\frac{15}{60} = \frac{N}{4}$  What is N?  Answer _____		
5.	What number is missing from the box below? $9618 = (9 \times 1000) + (6 \times \square) + (1 \times 10) + (8 \times 1)$  Answer _____		

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
6.	<p>If the diameter of a circle is 24 cm, calculate the radius.</p> <p>Answer _____ cm</p>		
7.	 <p>Calculate the area of the rectangle shown above.</p> <p>Answer _____ m<sup>2</sup></p>		
8.	 <p>State the time on the clock in digital notation.</p> <p>Answer _____</p>		
9.	<p>1000 grams = 1 kg</p> <p>Convert 7 500 grams to kilograms.</p> <p>Answer _____ kg</p>		

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
10.	<p>A bucket contains 12 litres of water. How many containers each having a capacity <math>\frac{1}{2}</math> litre can be filled from this bucket?</p> <p>Answer _____</p>		
11.	<div style="text-align: center;">  </div> <p>What is the name given to the shape that can be formed by the net above?</p> <p>Answer _____</p>		
12.	<p><u>Item 12</u> refers to the information given below.</p> <div style="text-align: center; border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">             3, 3, 6, 5, 4, 3         </div> <p>The numbers above represent the goals scored by a team in 6 different matches.</p> <p>What is the mode of the scores above?</p> <p>Answer _____</p>		

## SECTION II

In this section show ALL your working in the working column.

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
13.	What is the sum of 875 and 261?  Answer _____		
14.	Find the difference between 2082 and 3614.  Answer _____		
15.	What is the product of 638 and 24?  Answer _____		
16.	Divide 824 by 8.  Answer _____		

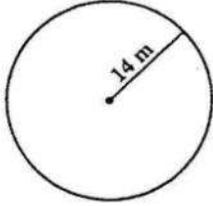
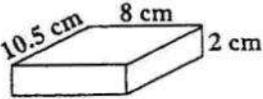
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No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
17.	$\sqrt{100} \div 7 =$  Answer _____		
18.	What is the sum of $4\frac{1}{5}$ and $2\frac{3}{10}$ ?  Answer _____		
19.	Take $7\frac{1}{2}$ from $8\frac{2}{3}$ .  Answer _____		
20.	Multiply $1\frac{7}{8}$ by $\frac{1}{3}$ .  Answer _____		
21.	Divide 8 by $\frac{2}{3}$ .  Answer _____		

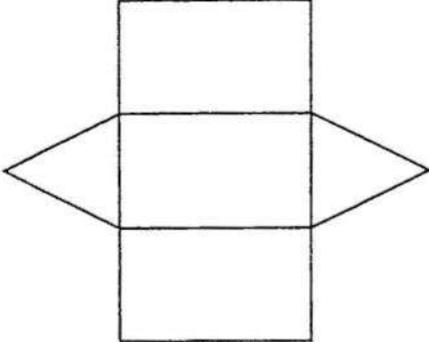
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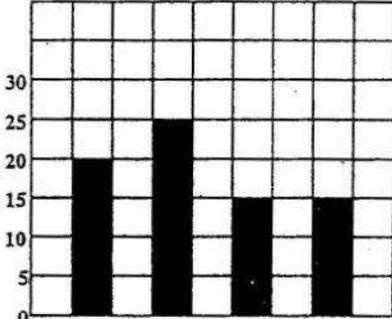
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
22.	<p>Kyle ran 2.5 km. Kareem ran 1.35 km more than Kyle. What distance in kilometres did Kareem run?</p> <p>Answer _____ km</p>		
23.	<p>Divide 9.44 by 0.2</p> <p>Answer _____</p>		
24.	<p>Calculate 12% of \$50.00</p> <p>Answer _____</p>		
25.	<div data-bbox="440 1243 732 1528" data-label="Image"> </div> <p>If each small square has an area of <math>1 \text{ cm}^2</math>, find the area of the shaded region.</p> <p>Answer _____ <math>\text{cm}^2</math></p>		

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
26.	 <p>What is the circumference of a circular race track whose radius is 14 m?</p> <p>(Use <math>\pi = \frac{22}{7}</math>.)</p> <p>Answer _____ m</p>		
27.	 <p>What is the volume of a cuboid of length 10.5 cm, width 8 cm and height 2 cm?</p> <p>Answer _____ <math>\text{cm}^3</math></p>		
28.	<p>School started at 8:30 a.m. and John arrived 45 minutes late. At what time did John get to school?</p> <p>Answer _____</p>		
29.	<p>A man's daily wage is \$34.50. If he worked 5 days a week for 2 weeks, what was his total wage?</p> <p>Answer _____</p>		

Questions 30 to 35 are unavailable

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
36.	 <p>Draw ALL the lines of symmetry on the shape above.</p>		
37.	<div style="border: 1px solid black; padding: 5px; display: inline-block; margin-bottom: 10px;">2, 6, 2, 7, 1, 7, 7, 6, 6, 6</div> <p>The above numbers are the scores in a game of darts.</p> <p>What is the mean score?</p> <p>Answer _____</p>		

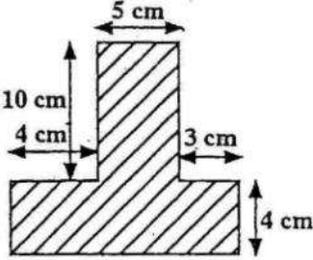
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here										
	<p data-bbox="266 453 846 489"><u>Item 38</u> refers to the following diagram.</p> <div data-bbox="300 527 820 966" style="text-align: center;"> <p data-bbox="516 527 769 552">FAVOURITE T.V. SHOWS</p>  <table border="1" data-bbox="428 552 820 871"> <caption>FAVOURITE T.V. SHOWS</caption> <thead> <tr> <th>Show</th> <th>Number of Children</th> </tr> </thead> <tbody> <tr> <td>BATMAN</td> <td>20</td> </tr> <tr> <td>XENA</td> <td>25</td> </tr> <tr> <td>POKEMON</td> <td>15</td> </tr> <tr> <td>RUGRATS</td> <td>15</td> </tr> </tbody> </table> </div> <p data-bbox="266 1010 873 1081">Use the information on the graph to answer the following question.</p> <p data-bbox="188 1115 873 1186">38. How many more children prefer watching XENA to RUGRATS?</p> <p data-bbox="266 1255 776 1291">Answer _____</p>	Show	Number of Children	BATMAN	20	XENA	25	POKEMON	15	RUGRATS	15		
Show	Number of Children												
BATMAN	20												
XENA	25												
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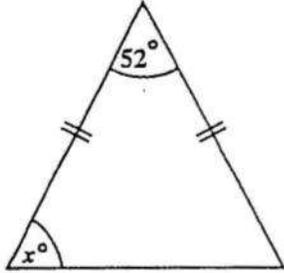
## SECTION III

In this section, show ALL your working in the working column.

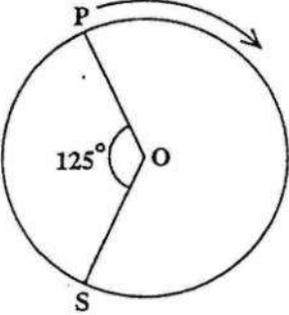
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
39.	<p>A Standard V class has 22 boys and 16 girls. If 2 girls are added to the class what percentage of the class will be girls?</p> <p>Answer _____</p>		
40.	<p>Adrian bought 30 plums. He gave his sister <math>\frac{1}{3}</math> of them and then gave his friend <math>\frac{1}{4}</math> of the remainder. What fraction of the plums did Adrian keep for himself?</p> <p>Answer _____</p>		
41.	<p>Mike buys 15 shirts for \$1 200.</p> <p>How much would 4 such shirts cost?</p> <p>Answer _____</p>		
42.	<p>5 boxes each containing 48 marbles were repacked into 8 smaller boxes. How many marbles were in each of the 8 boxes?</p> <p>Answer _____</p>		

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No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
43.	 <p>Calculate the area, in <math>\text{cm}^2</math>, of the figure shown above.</p> <p>Answer _____ <math>\text{cm}^2</math></p>		
44.	<p>A library charges 50¢ per book per day for returning books late. A student paid \$9.00 for returning 3 books late. The books were all borrowed on the same day. Calculate the number of days the books were overdue.</p> <p>Answer _____</p>		
45.	<p>The cash price of a T.V. set was \$1 500. The hire purchase price was \$160 per month for 1 year. How much was saved by paying the cash price?</p> <p>Answer _____</p>		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
46.	<p>A vendor bought 6 dozen eggs for \$30.00. While transporting, 6 eggs were broken. The remainder was sold at \$7.50 per dozen. What was the profit?</p> <p>Answer _____</p>		
47.	 <p>Calculate the size of the angle marked <math>x</math> in the triangle shown above.</p> <p>Answer _____</p>		

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No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
48.	 <p>The diagram shows a circle with centre O. P turns about the point O, in the direction of the arrow, to take the position S. Through what size angle, in degrees, does P turn?</p> <p>Answer _____</p>		
49.	<p>After playing four test matches a batsman's average was 56. If he made 71 runs in the fifth test match, what would be his average now?</p> <p>Answer _____</p>		

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
50.	<div data-bbox="375 478 737 831" data-label="Figure"> <p>The pie chart is divided into six sectors. Clockwise from the top, the sectors are: Savings (a small sector), Entertainment (a sector), Food (a sector), Travel (a sector), Rent (a sector), and Clothes (a sector). A right angle symbol is drawn at the center between the radii for the Food and Rent sectors, indicating that the combined area of these two sectors is 1/4 of the circle.</p> </div> <p>The pie chart above shows how Mary uses her monthly salary of \$3 000.</p> <p>Mary spends the same for rent as she does for travel.</p> <p>How much more money, in dollars, does Mary spend on <b>food</b> than on <b>rent</b>?</p> <p>Answer \$ _____</p>		

END OF TEST

IF YOU FINISH BEFORE TIME IS CALLED, CHECK YOUR WORK ON THIS TEST.