



ANSWER BOOKLET

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FILL IN ALL THE INFORMATION REQUESTED CLEARLY AND LEGIBLY.

TEST CODE

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TEST CODE

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SUBJECT MATHEMATICS 2023

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READ THE FOLLOWING
DIRECTIONS CAREFULLY.

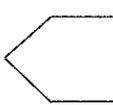
1. This test is divided into **THREE** sections.
2. Make sure you read the instructions before you start to work on any section.
3. Write all your answers in this test booklet.
4. **DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.**

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

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FOLDER NUMBER

258

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Item	Mark			Initials
	Knowing	Applying	Reasoning	
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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.



SECTION 1

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 _____

258

0013



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.

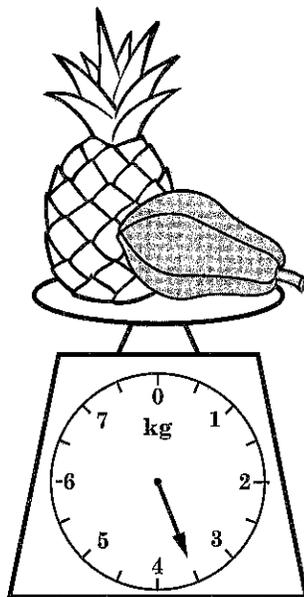
April

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 _____

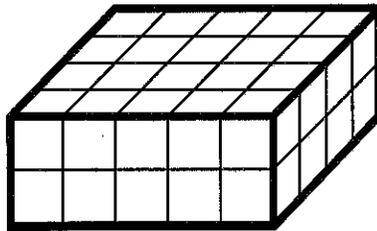
12. The total mass of a pineapple and a paw paw is shown on the scale below. The mass of the pineapple is 2.75 kg.



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

Answer _____ grams

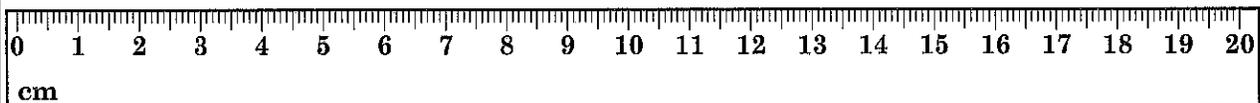
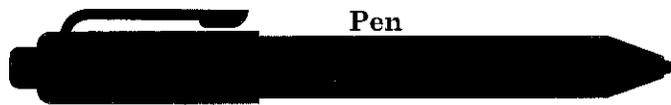
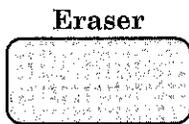
13. Identical cubes are packed into a box as shown below.



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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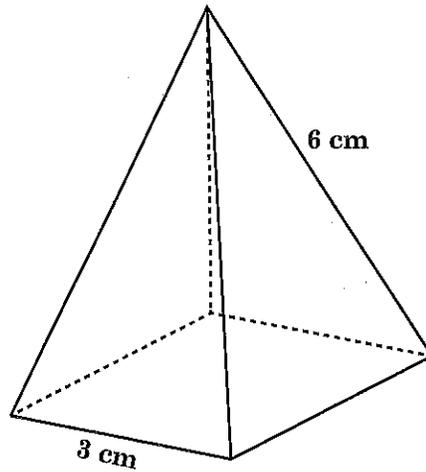
K (3)

A (1)

R (0)

TOTAL (4)

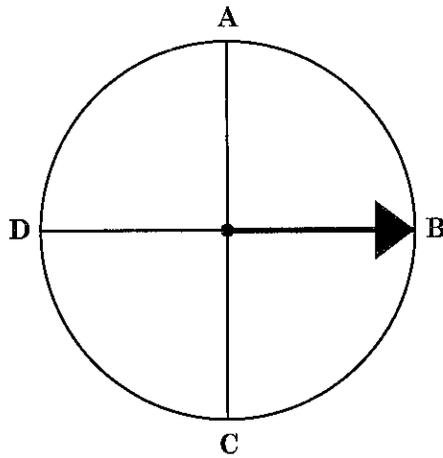
15. The pyramid shown below has a square base.



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

Answer _____ edges

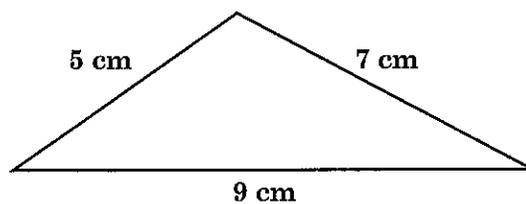
16. The arrow below is pointing to B. The arrow moves three quarter-turns in an anticlockwise direction.



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

Shoe Size	9	8	7	6	5
Number of Students	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	
Fishes	10	
Dogs	12	

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

DO NOT WRITE HERE	K (3)		A (0)		R (0)		TOTAL (3)	
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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.

60×18

Kim's Estimate

600

Ben's Estimate

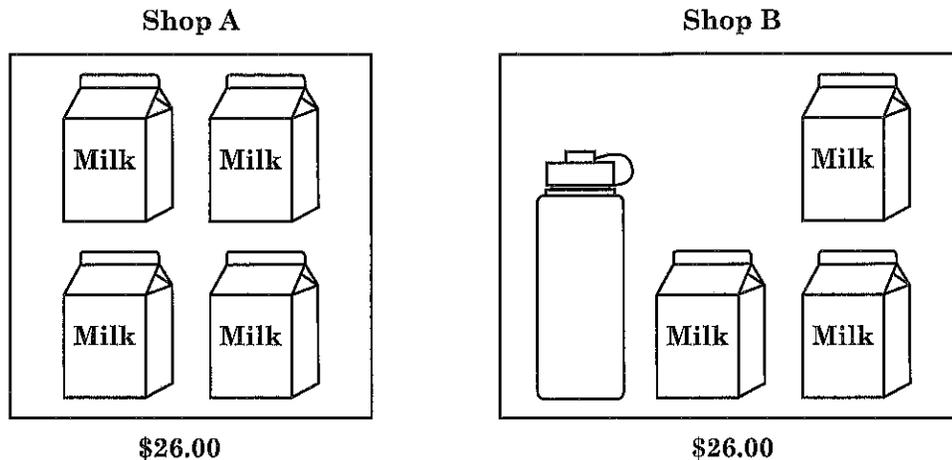
1200

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)

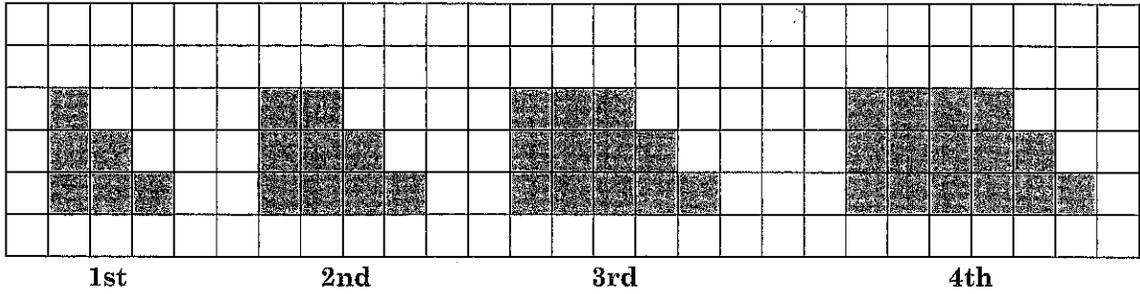
27. The cost of a bag is **three times** the cost of a cap. The total cost of 2 bags and 3 caps is \$180.

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

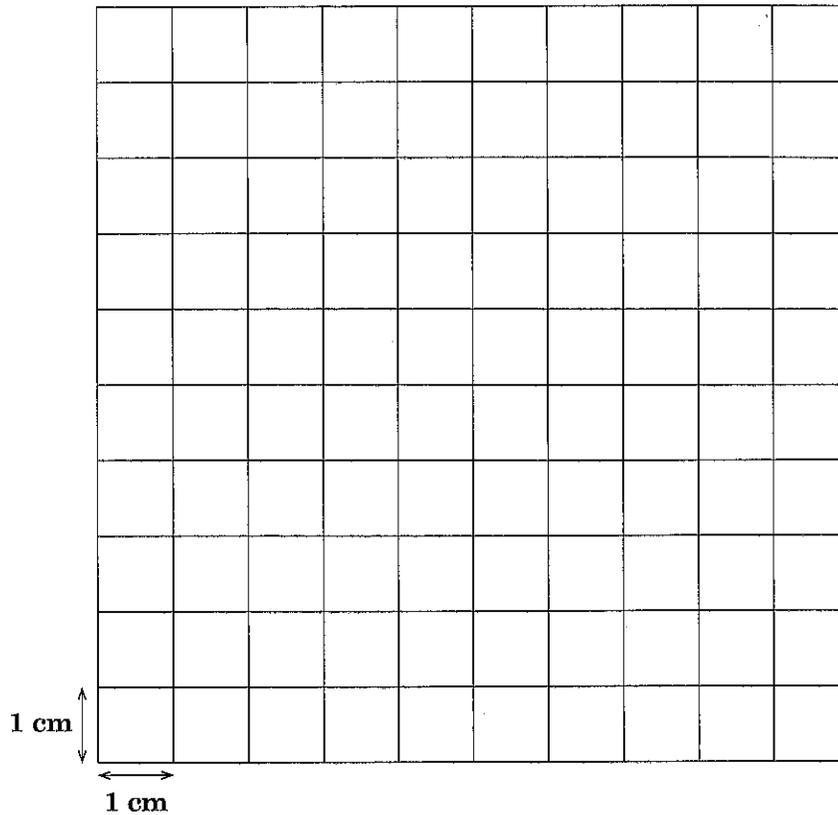
State the pattern rule.

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 cm^2 on the grid below.



(2 marks)

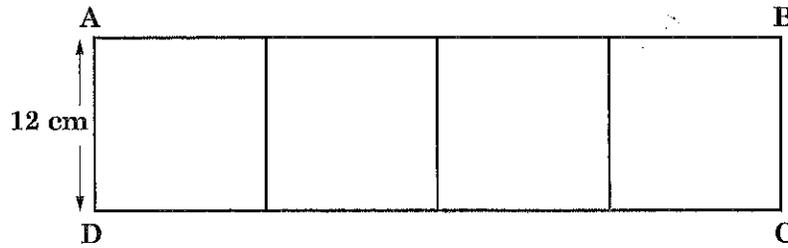
30. A clock shows that the time in Trinidad is 6:00 a.m. The clock is 15 minutes slow. The time in Trinidad is 2 hours ahead of the time in Canada.

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)

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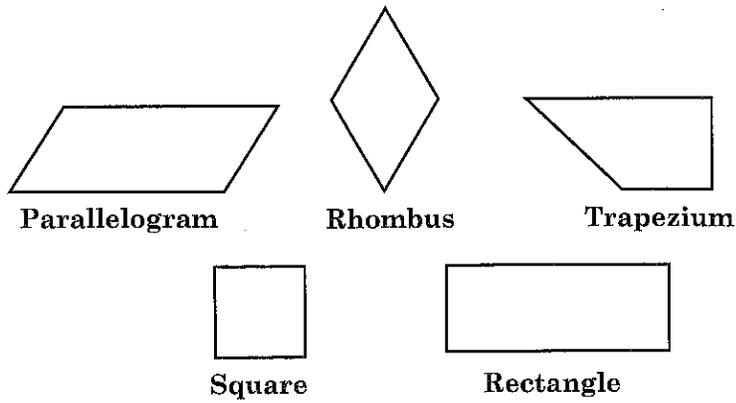
K (0)

A (7)

R (3)

TOTAL (10)

33. Five quadrilaterals are shown below.

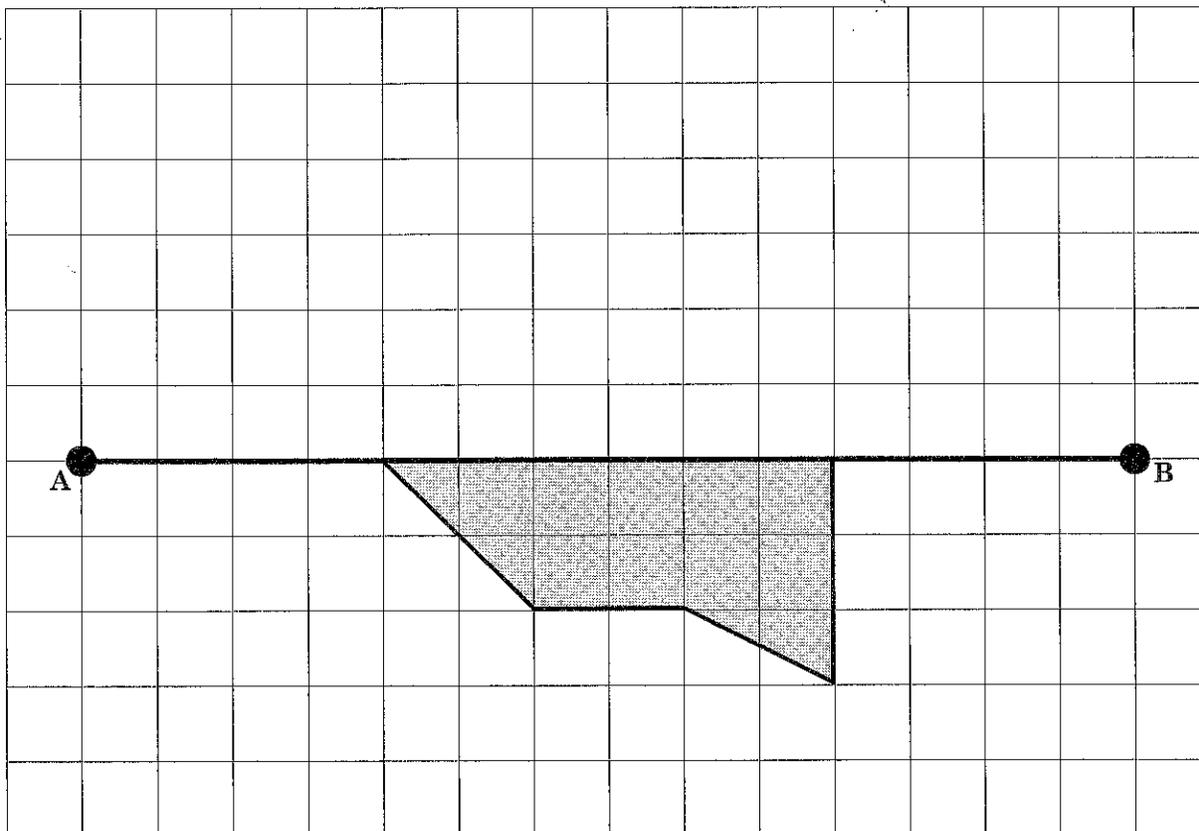


Write the name of the quadrilateral that matches the properties given.

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.

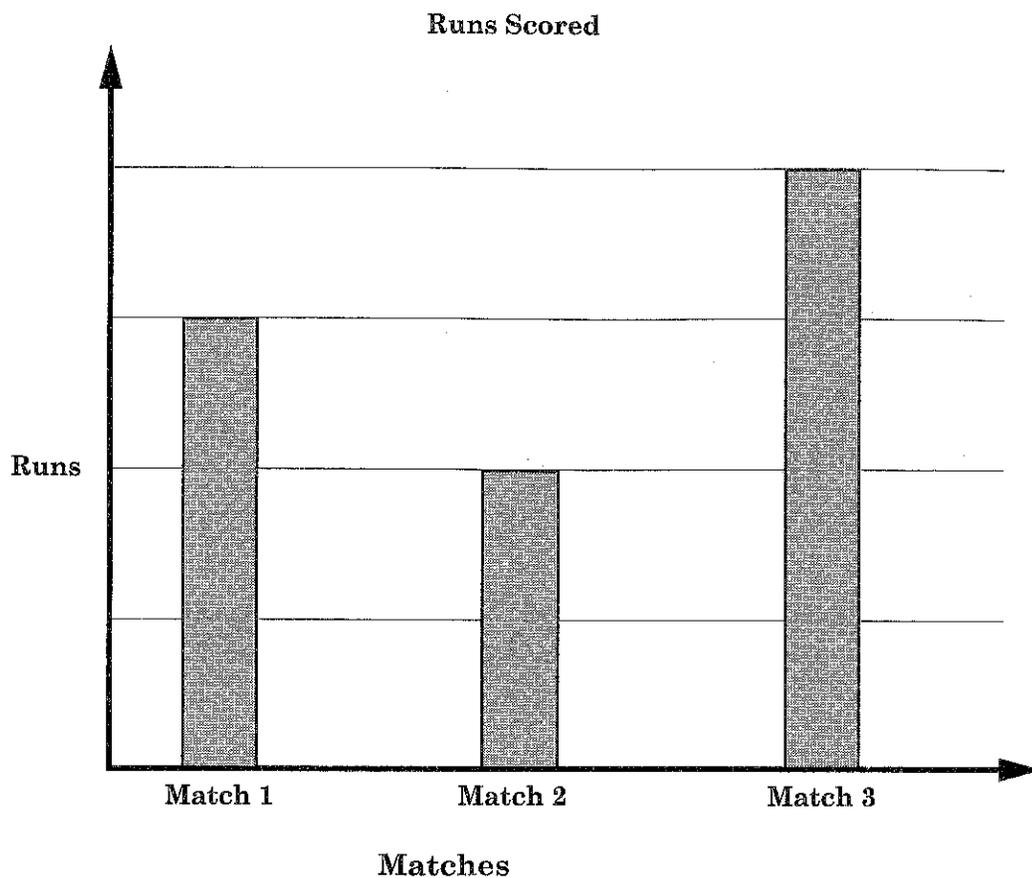


(2 marks)

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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

Subject	Science	Mathematics	Art	Music	English Language Arts
Mark	80		55	47	73

Calculate Paul's mark in Mathematics.

Answer _____

(3 marks)

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

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

<p>Pies</p>  <p>2 for \$5</p>	<p>Doughnuts</p>  <p>3 for \$10</p>
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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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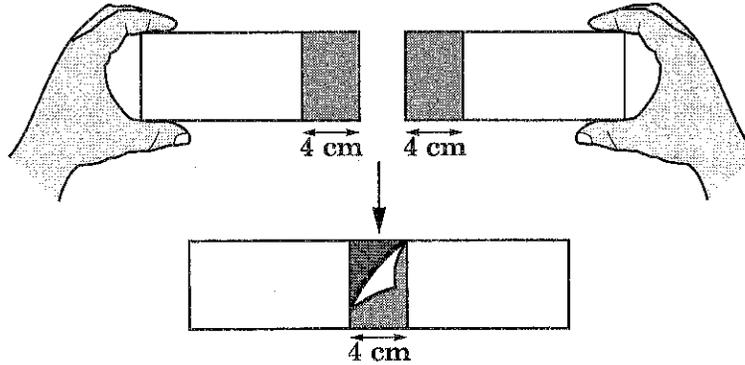
238

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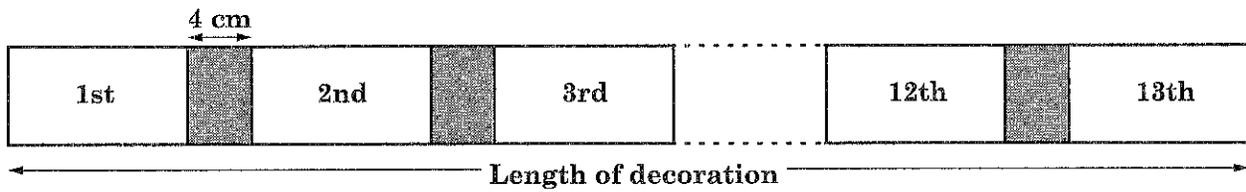


258

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.



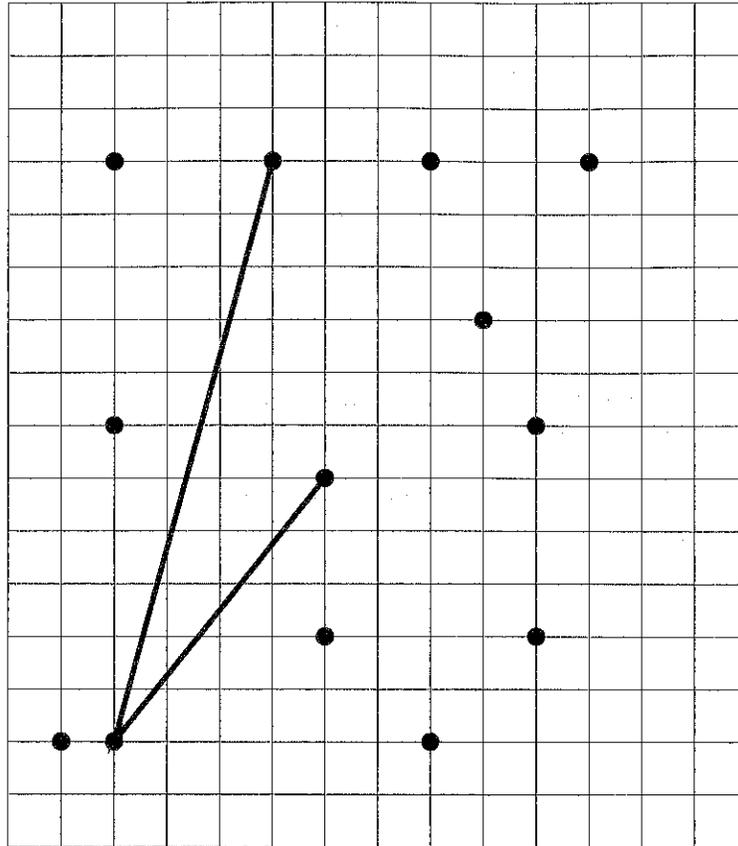
Calculate the length of Dave's decoration.

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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

