



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.

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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>

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.

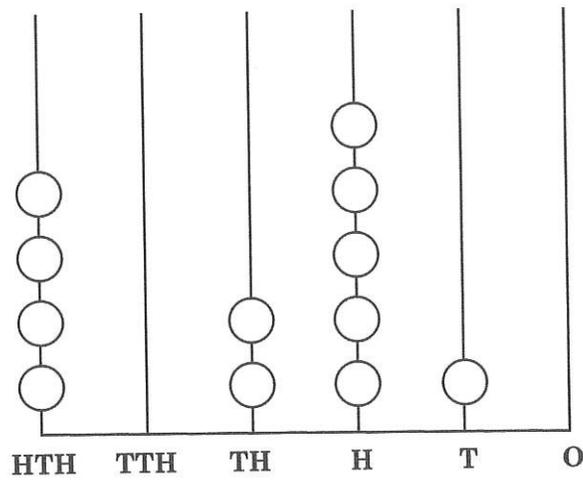
Work carefully but do **NOT** spend too much time on any one question.

**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

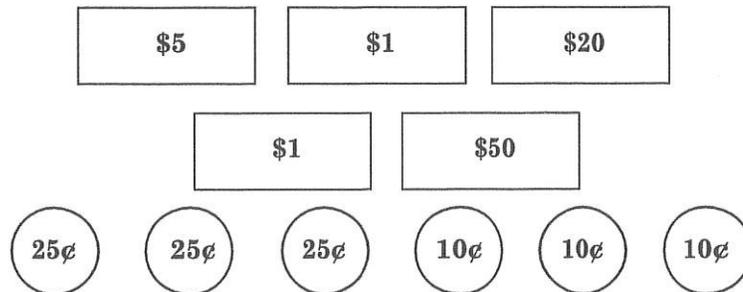
0.36



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?

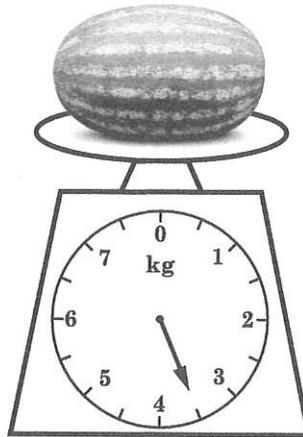
Answer \_\_\_\_\_

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)

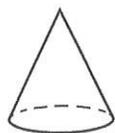
A (1)

R (0)

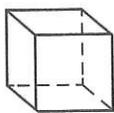
TOTAL (4)



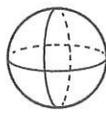
15. Which of the shapes shown below has a uniform cross-section?



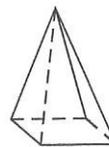
A



B



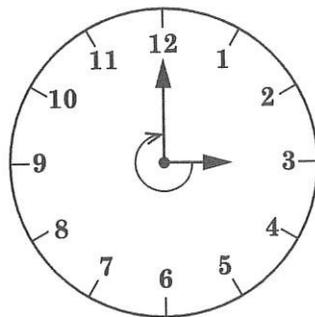
C



D

Answer \_\_\_\_\_

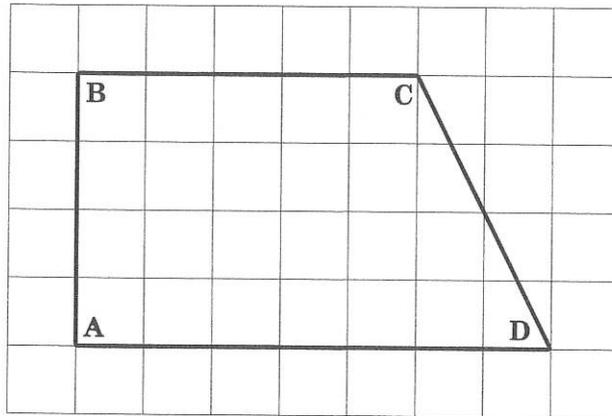
16. The hour hand of the clock shown below moved from 3 to 12.



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.

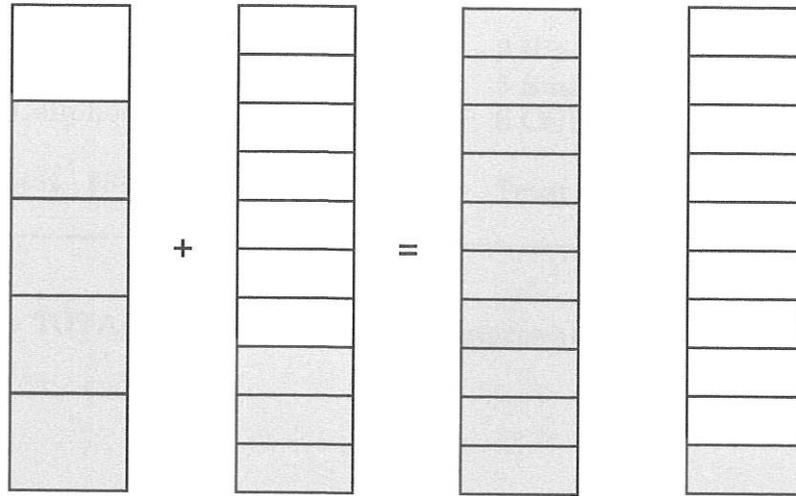
How many marbles does Jessie have?

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

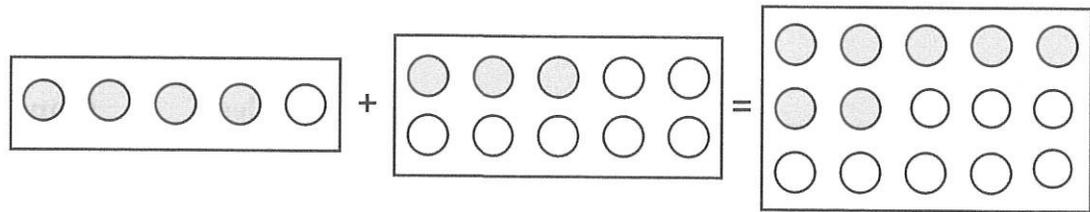


28. Two students were asked to use manipulatives to add  $\frac{4}{5}$  and  $\frac{3}{10}$ . Fraction pieces and counters were used as shown below.

Priya's fraction pieces



Sharda's counters



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

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

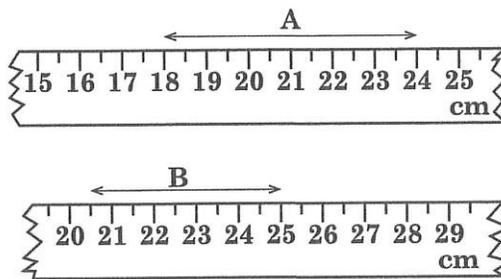
(3 marks)

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.

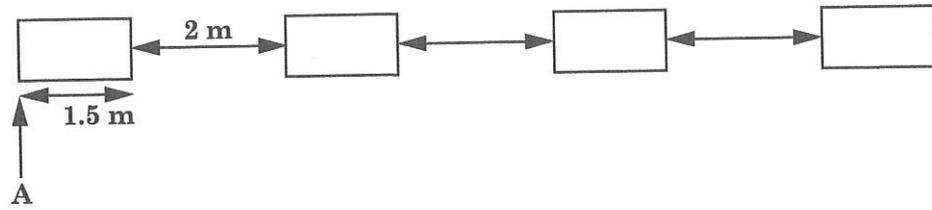


What is the sum of the lengths of A and B?

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)

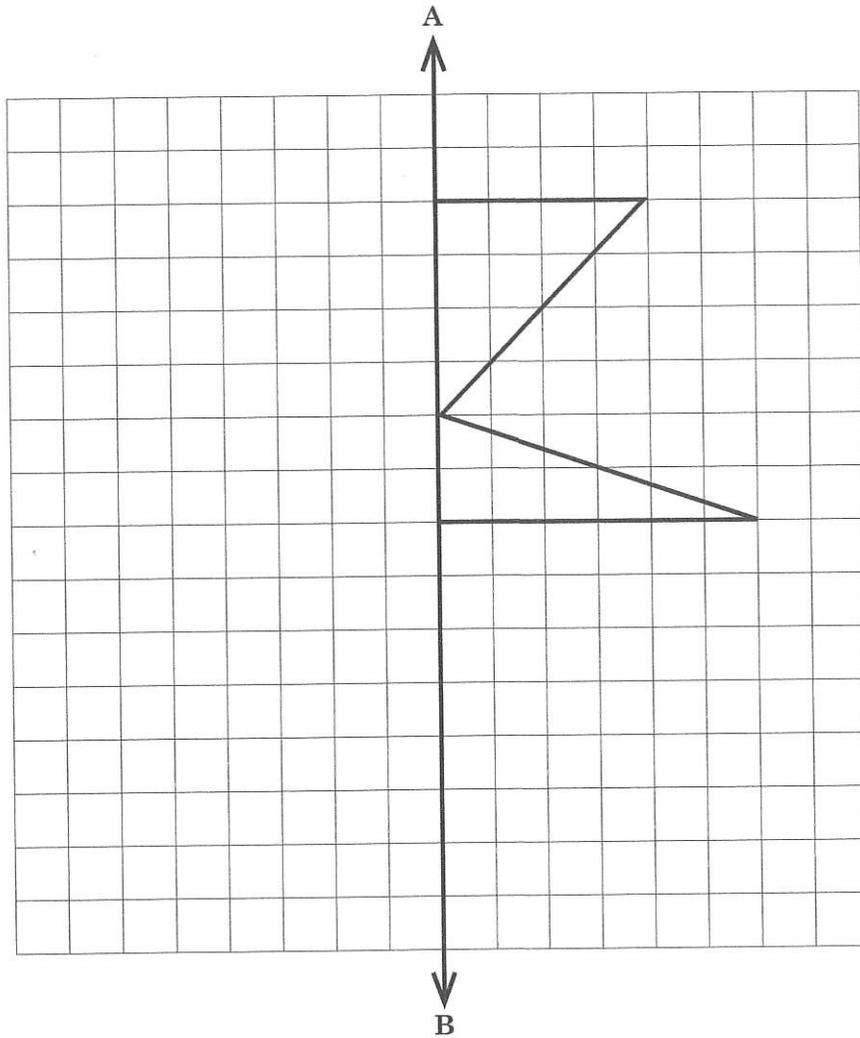


**33.** Draw **all** the faces of a triangular prism.

**(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?

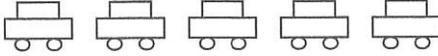
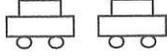
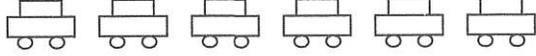
Answer \_\_\_\_\_ %

**(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
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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

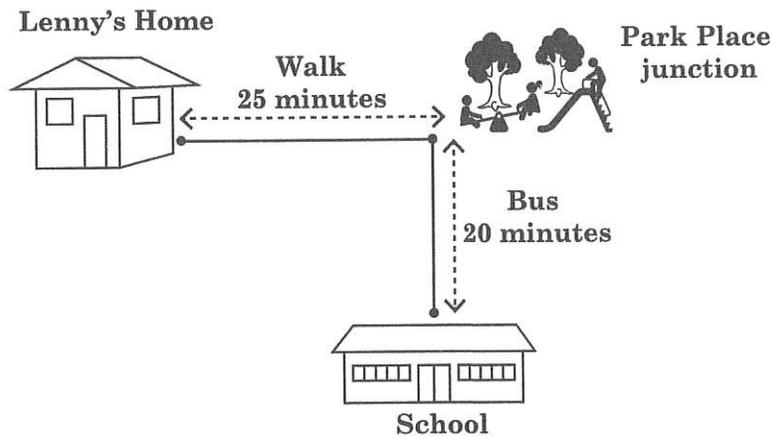
Complete the table to show the number of plastic bottles and straws each group received.

**(4 marks)**

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



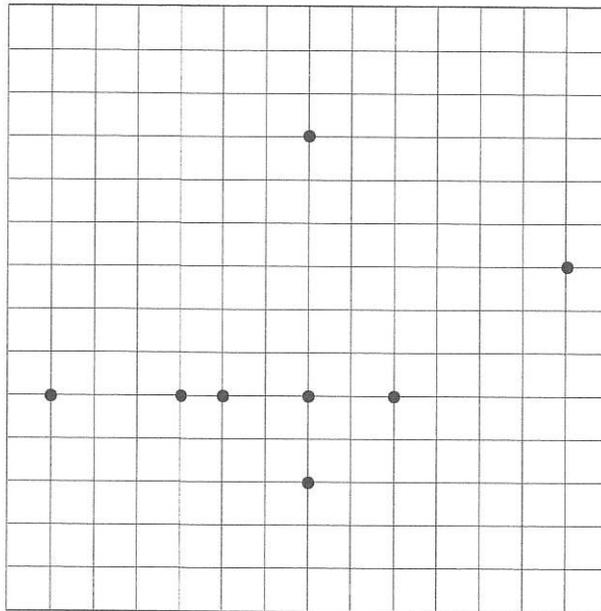
What time did Ravi leave home to arrive at Park Place junction at the same time as Lenny?

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)**

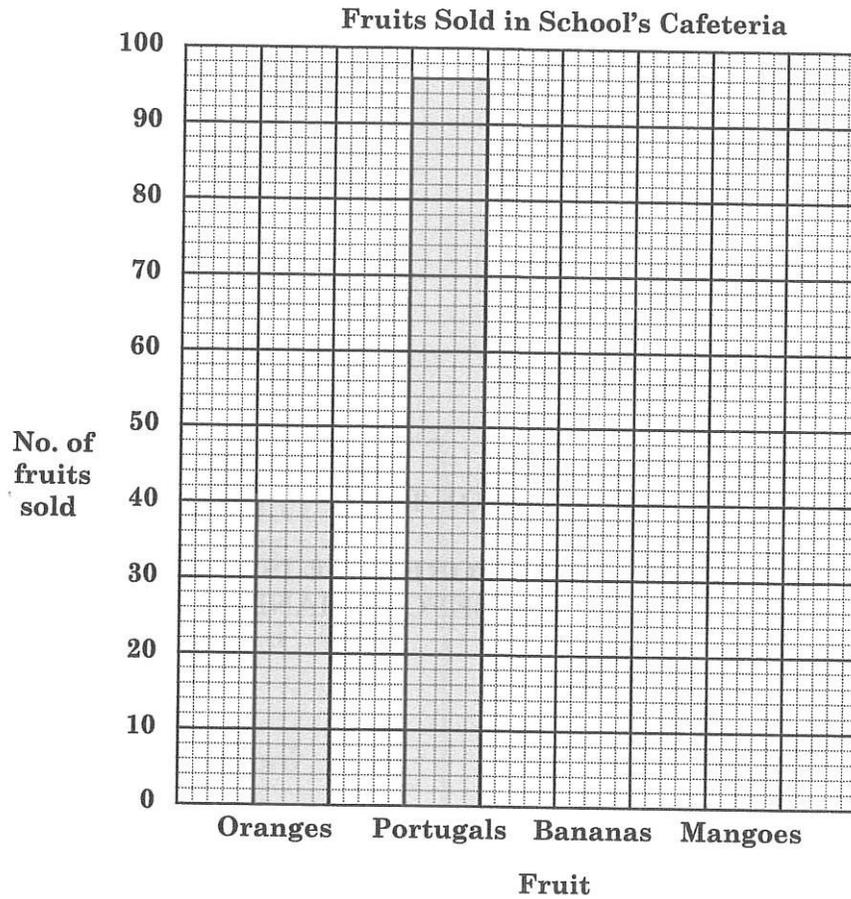
- (b) Draw the line of symmetry on the quadrilateral in part (a).

**(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.**

