



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 2024

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Please place your label here.

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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.

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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"/>

DO NOT WRITE IN THIS SPACE.

FOLDER NUMBER

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B001



**DO NOT
WRITE ON
THIS PAGE**

DO NOT WRITE ON THIS PAGE.

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.

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SECTION 1

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 _____

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

> = <

8 693 8 639

5. $9 \overline{)927}$

Answer _____

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

Answer _____

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

Answer _____

8. $3.12 \times 4 =$

Answer _____

9. 15% of 300 =

Answer _____

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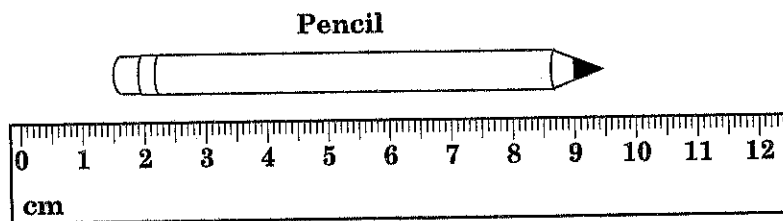
10. An incomplete pattern is shown below.

36, 28, 21, 15, _____, 6

What is the missing element in the pattern?

Answer _____

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



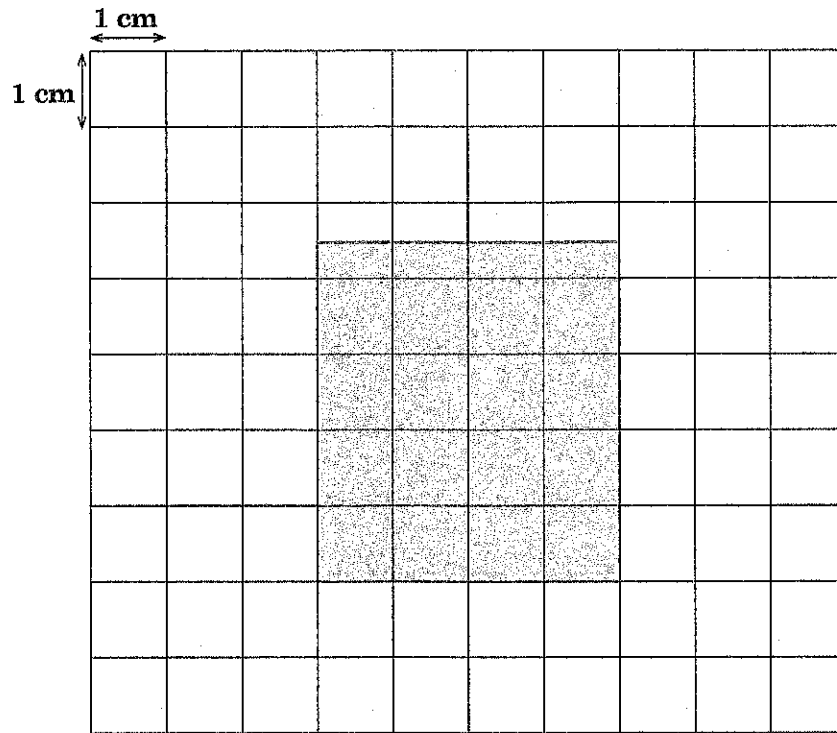
Answer _____ cm

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

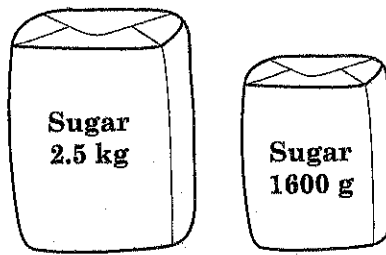
13. A shaded shape is shown on the 1 cm grid below.



What is the area of the shape?

Answer _____ cm^2

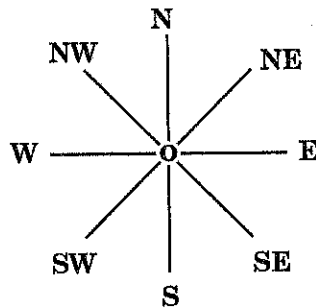
14. Two packs of sugar are shown below.



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

Answer _____ g

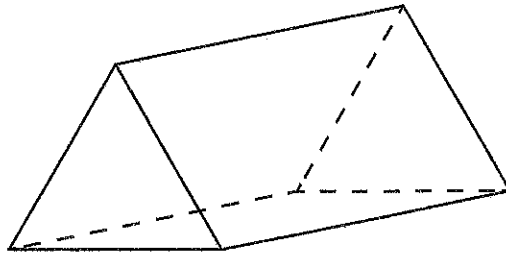
15. Gillian is standing at O facing NW. She makes quarter turns and is now facing SE.



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

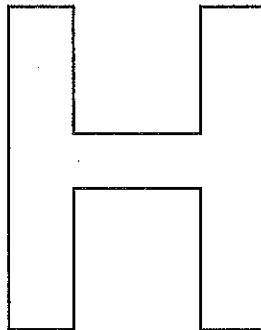
Answer _____ quarter turns

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



Answer _____ vertices

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



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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.

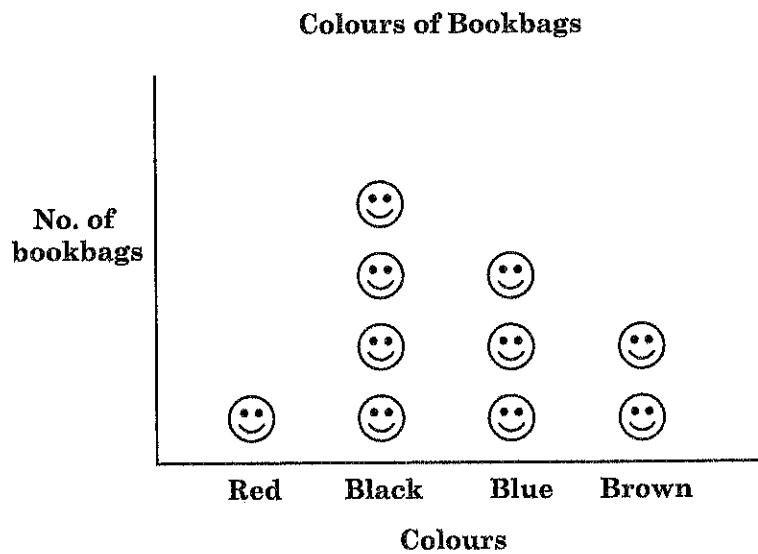
Gifts Students Received

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)

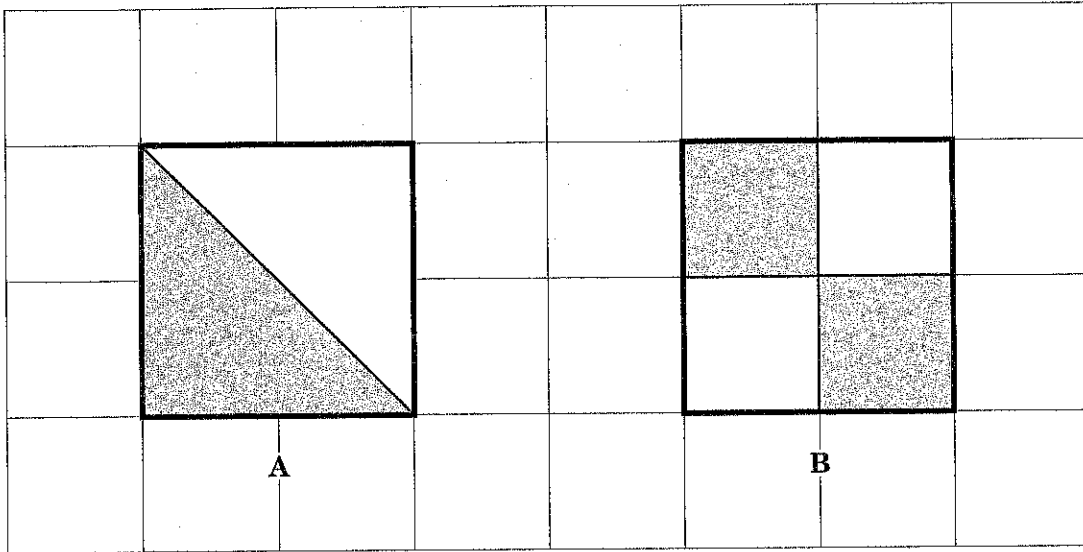
22. A packet of sweets was shared among 4 students. Each student received 15 sweets and there were 5 sweets remaining.

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.

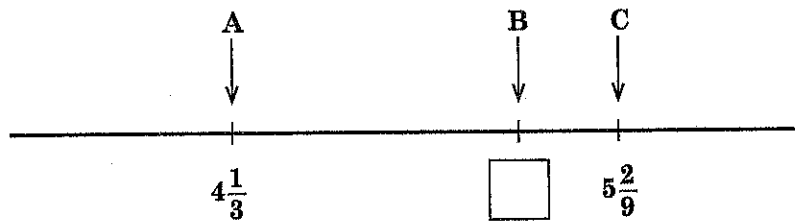
Stall A	Stall B
\$9.00 for 6 mangoes	\$5.00 for 4 mangoes

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.

<p>Pencils \$1.84 each</p>

<p>Rulers \$8.13 each</p>

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

Answer _____

(3 marks)

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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				

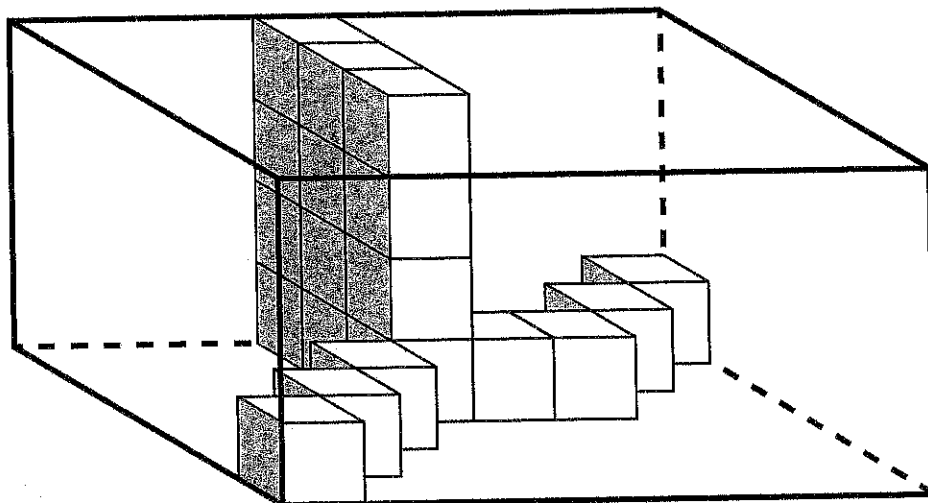
What will be the next **date** on which Phillip will play **both** football and cricket?

Answer _____ February

(2 marks)

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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?

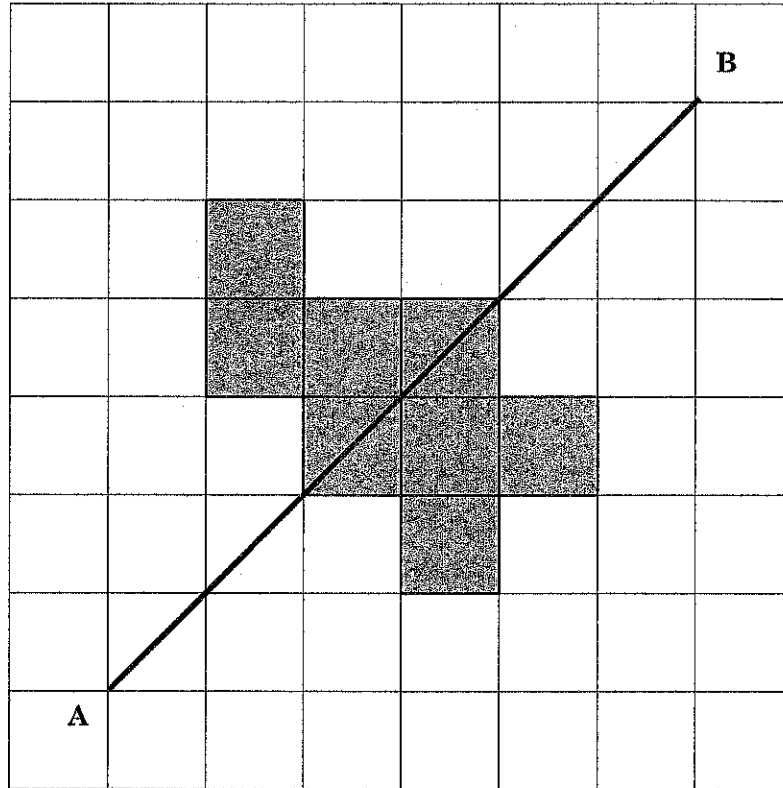
Answer _____ p.m.

(3 marks)

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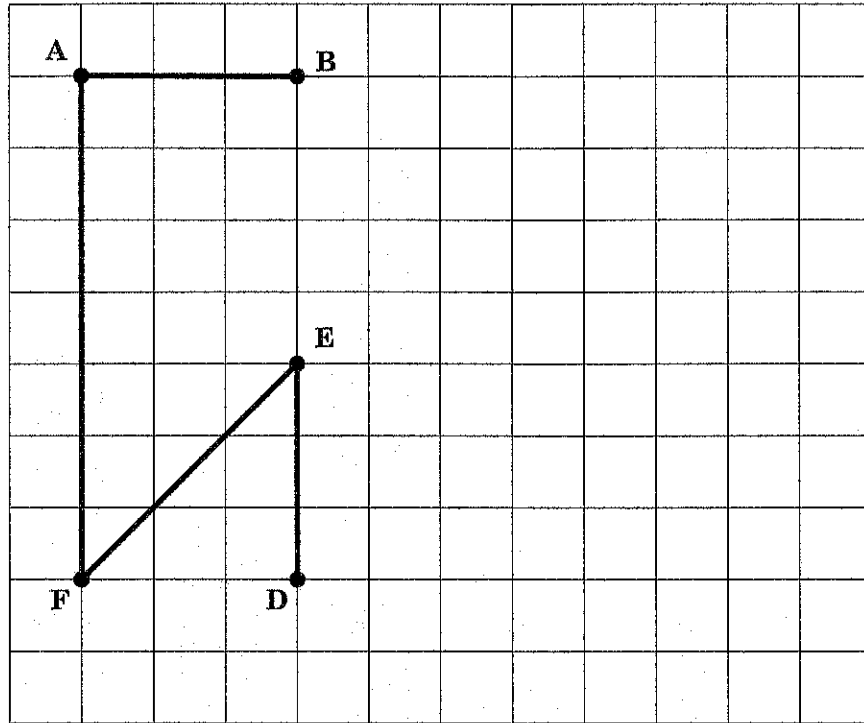
B001

33. 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)

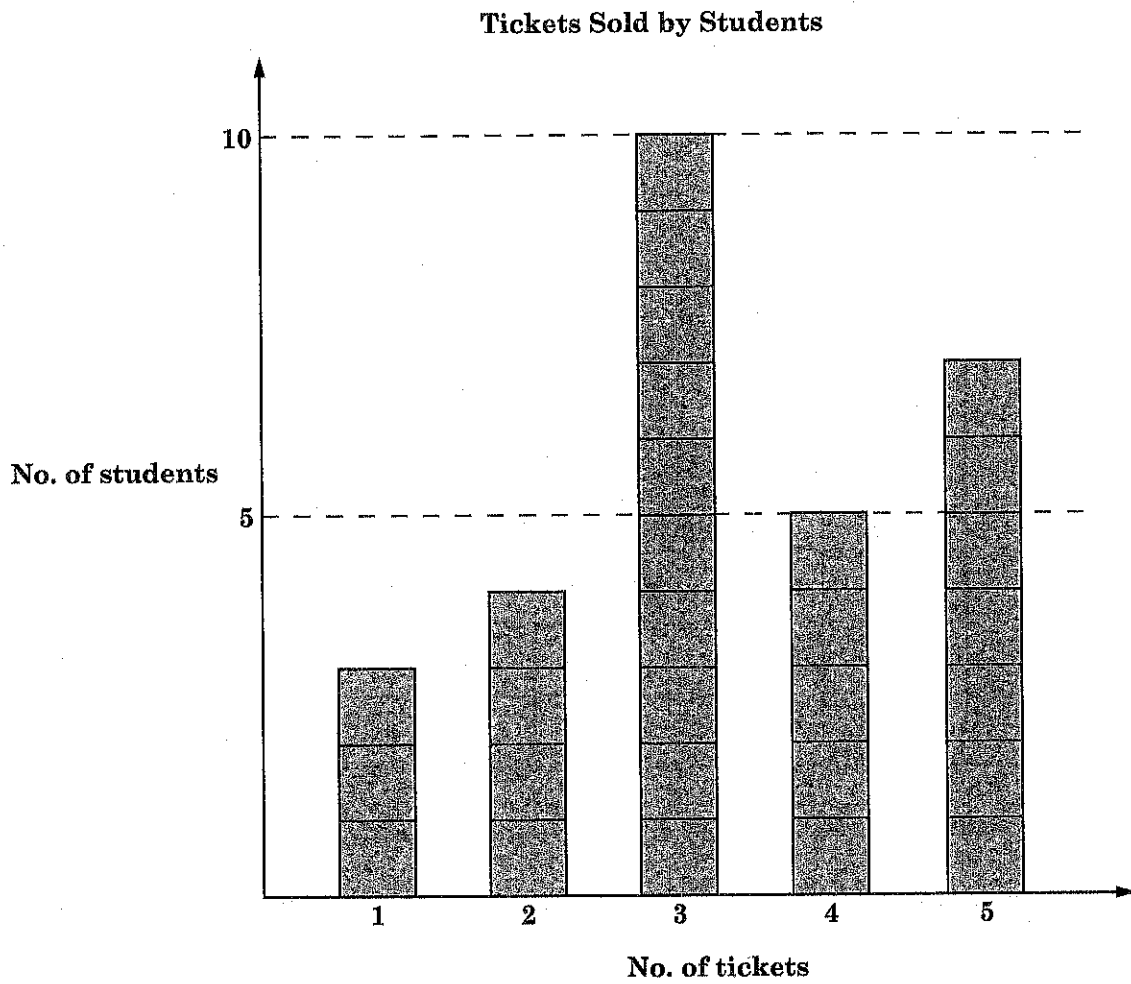
35. Olivia scored 86, 90 and 70 on three tests. She can earn a Grade A if her mean score is at least 80.

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)

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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.

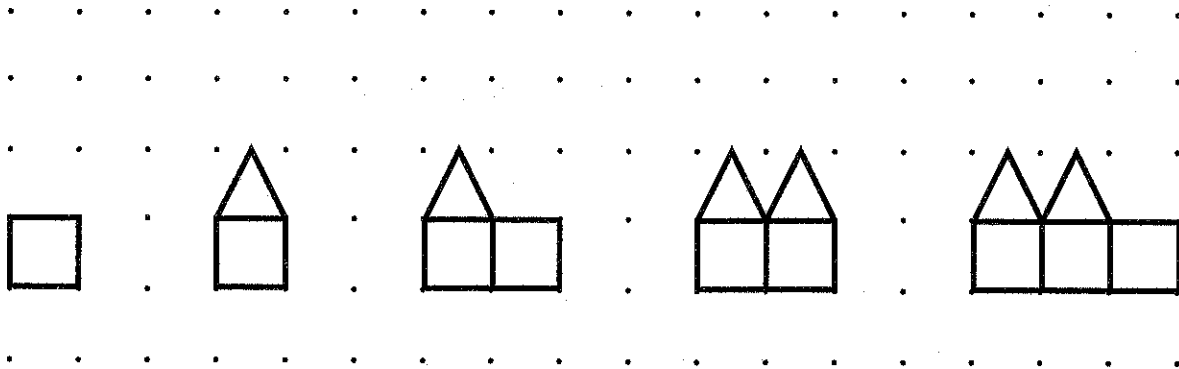


Figure 1

Figure 2

Figure 3

Figure 4

Figure 5

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

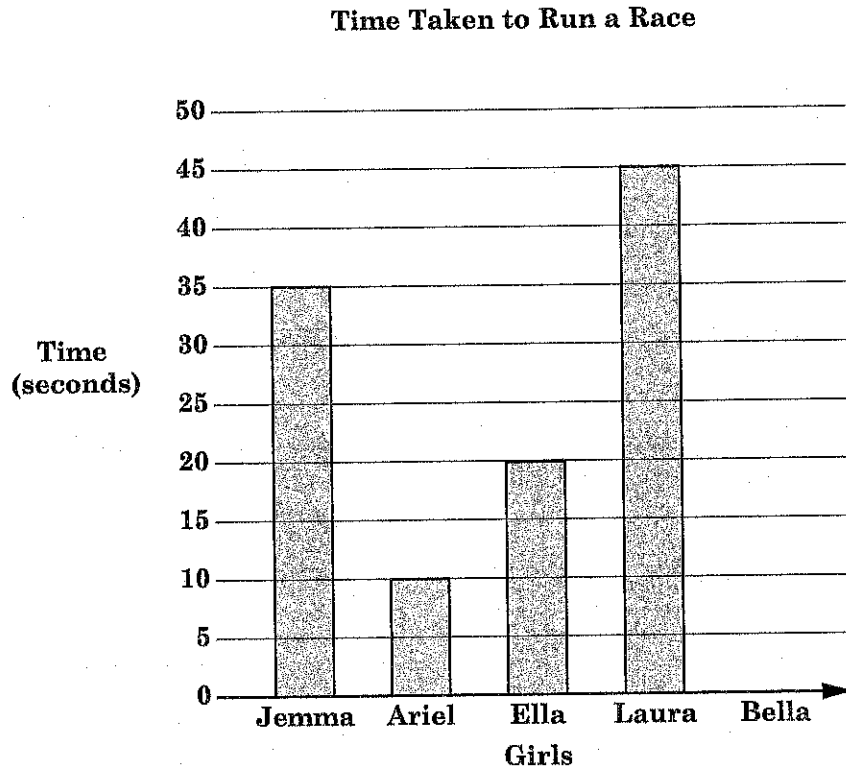
Figure	1	2	3	4	5	6	7	8	9	10
No. of lollipop sticks	4	6	9	—					—	26

(b) Describe the pattern rule.

Answer _____

(4 marks)

40. 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)

END OF TEST

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