SECTION 1

480

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.

$\underline{9}5\,367$

Answer _____

A015

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

5. $9\overline{)927}$

Answer _____

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 _____

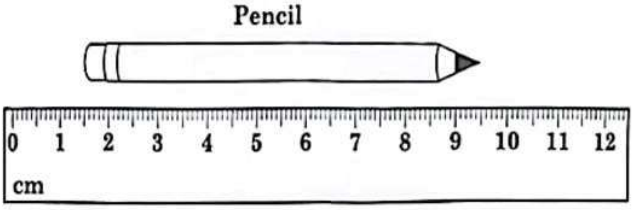
10. An incomplete pattern is shown below.

36, 28, 21, 15, ____, 6

What is the missing element in the pattern?

Answer _____

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



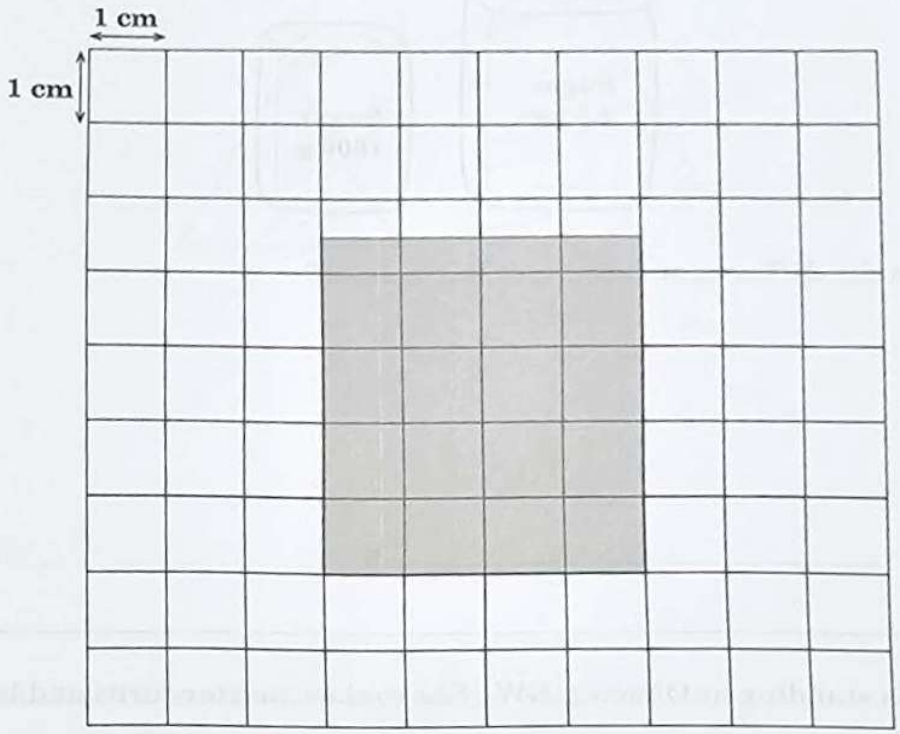
Answer _____ cm

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 _____ cm^2

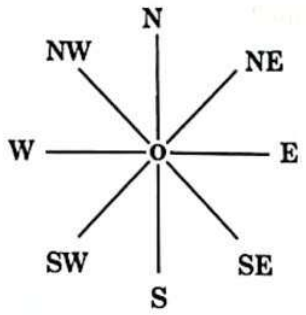
14. Two packs of sugar are shown below.

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

Answer _____ g

480

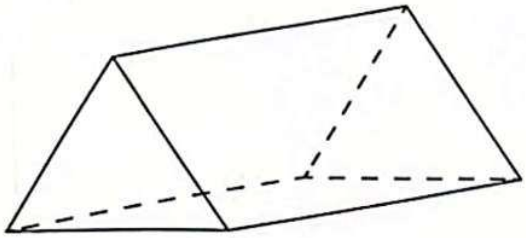
15. Gillian is standing at O facing NW. She makes quarter turns and is now facing SE.



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

Answer _____ quarter turns

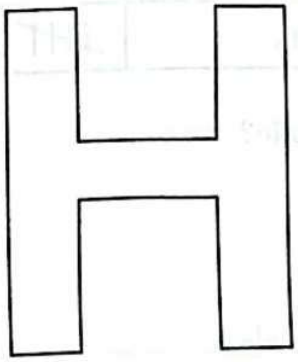
16. How many vertices are there in the solid shown below?



Answer _____ vertices

480

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



A015

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.

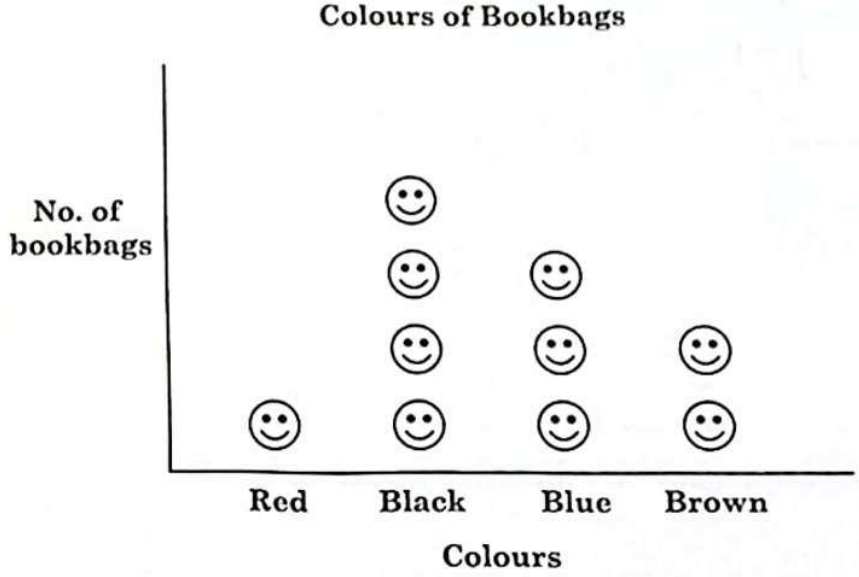
Gifts Students Received

Gift	Tally
Bicycles	𝍸 ||||
Books	𝍸 |
Cellphones	𝍸 𝍸 𝍸 ||
Tablets	𝍸 𝍸 𝍸

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

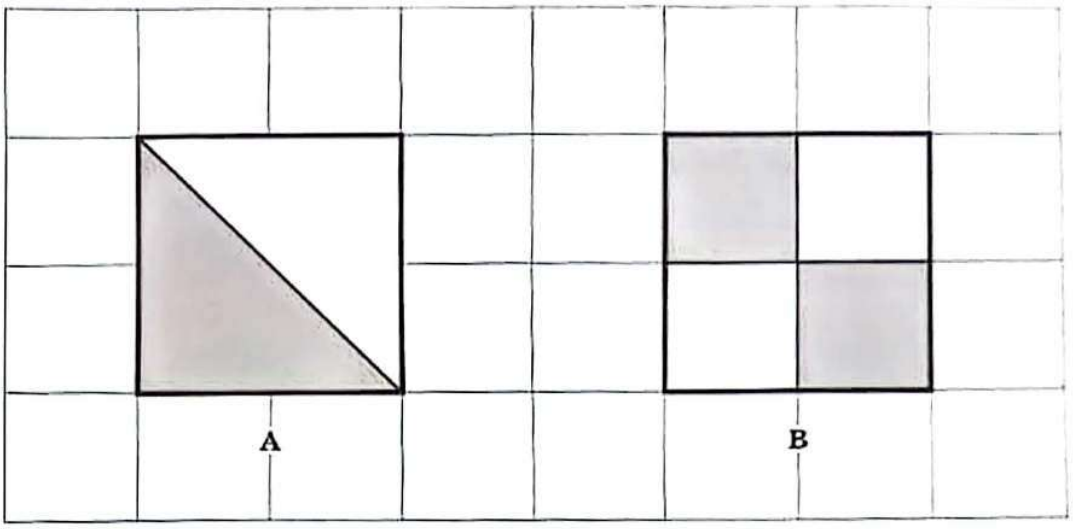
Answer $\square$ = _____ (2 marks)

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)

027

A005

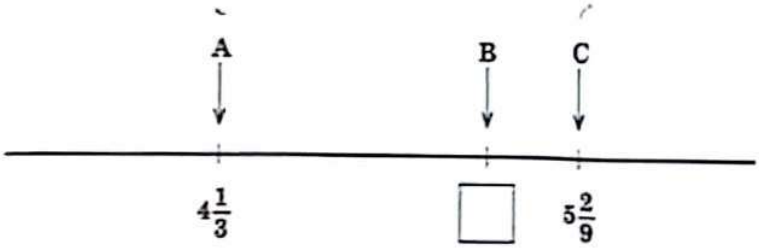
24. Two fruit stalls sell mangoes at the prices shown below.

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)**

GO ON TO THE NEXT PAGE

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

Pencils	Rulers
$1.84 each	$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 _____

_____

_____

_____

_____

_____

(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)**

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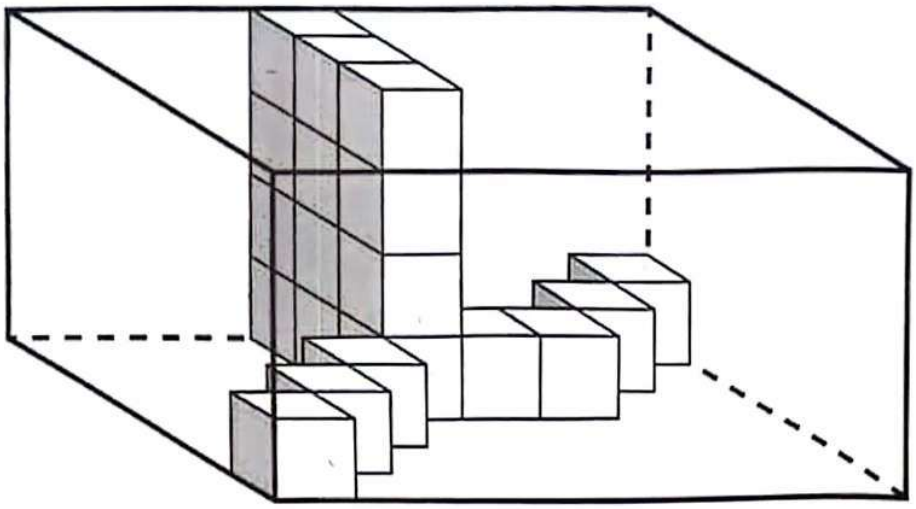
31. A box is packed with identical cubes, as shown below.



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

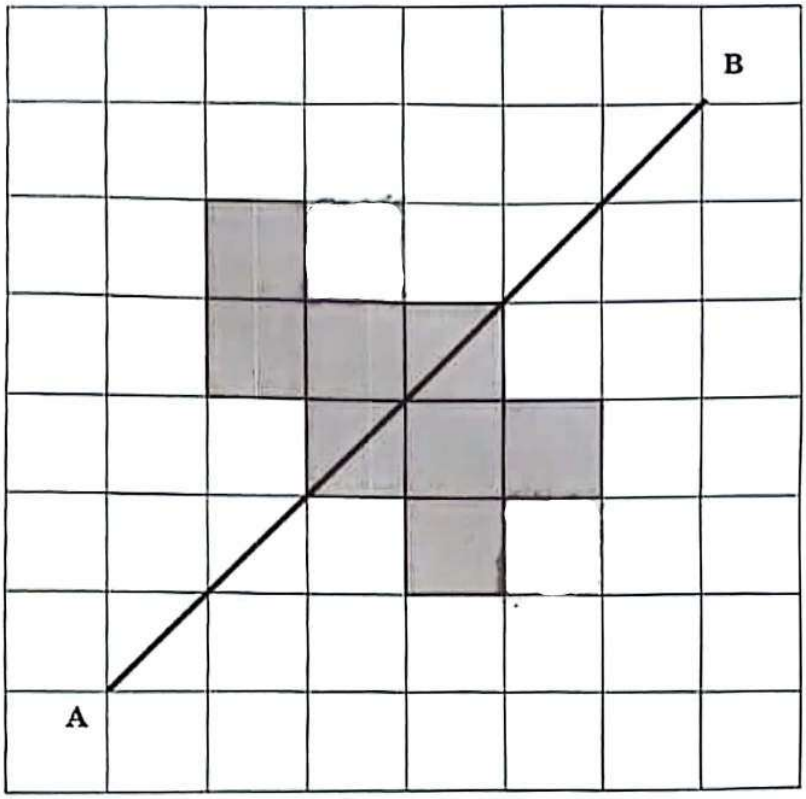
Answer _____ _____ cubes **(3 marks)**

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?

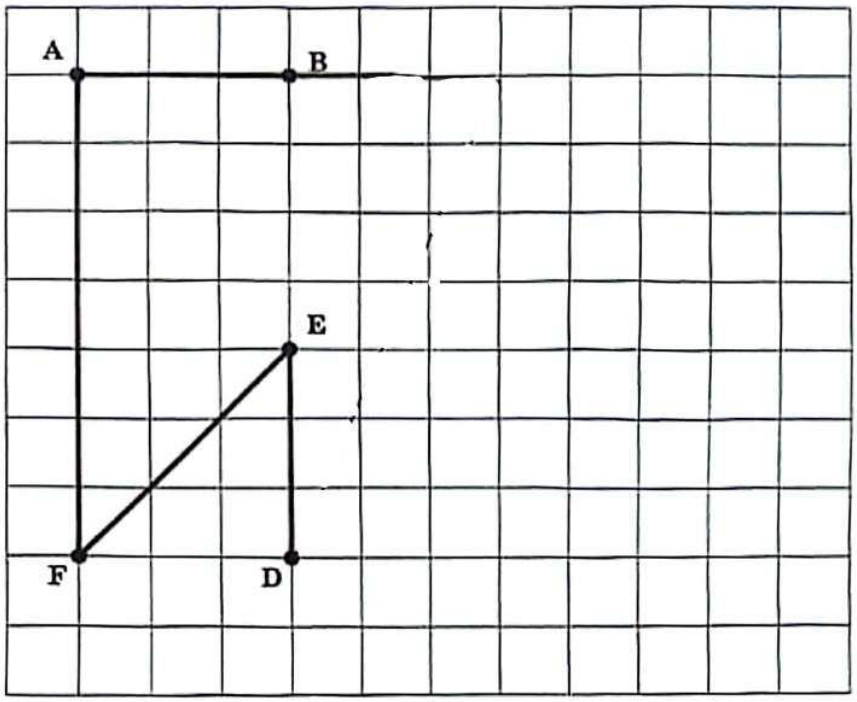
Answer _____ p.m. **(3 marks)**

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)

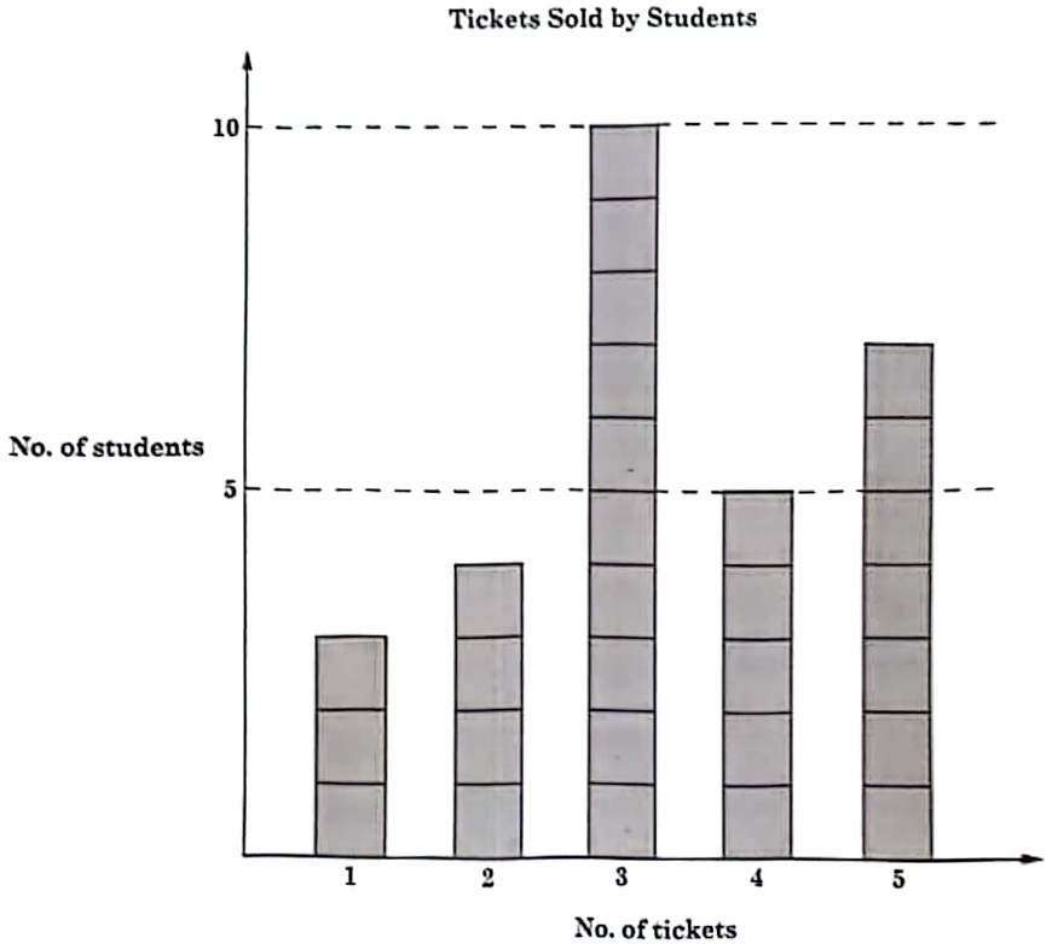
35. Olivia scored 86, 90 and 70 on three tests. She can earn a Grade A if her **mean** score is at least 80.

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

Answer _____ **(2 marks)**

GO ON TO THE NEXT PAGE

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.

Hand sanitizer

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.

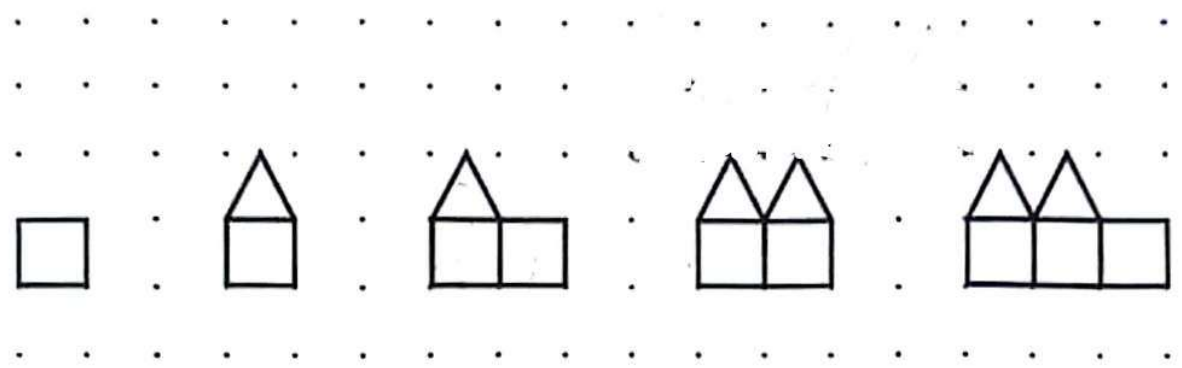


Figure 1 Figure 2 Figure 3 Figure 4 Figure 5

(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 _ _____

_____

_____

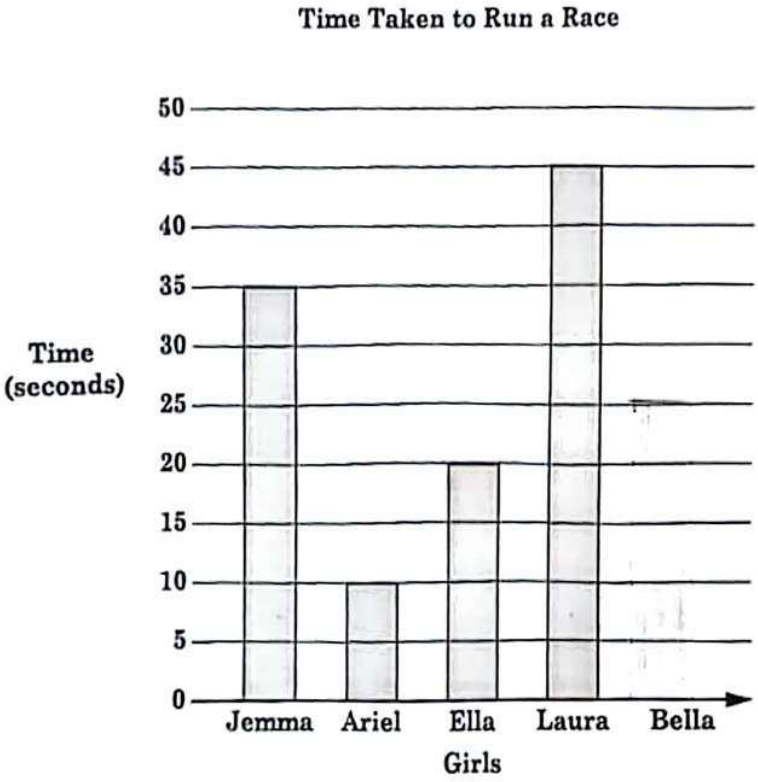
_____

_____

_____

(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)**