



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 2025

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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

971

A004



**DO NOT
WRITE ON
THIS PAGE**

DO NOT WRITE ON THIS PAGE.

Item	Mark			Initials
	Knowing	Applying	Reasoning	
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40				

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A004

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.

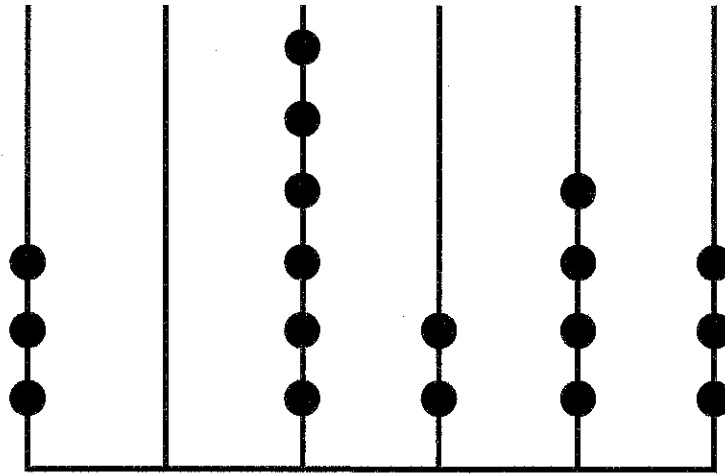
DO NOT BEGIN UNTIL YOU ARE TOLD TO DO SO.

971

A004

SECTION 1

1. Write the numeral represented below.



Answer _____

2. Circle the largest number below.

101 011

101 110

101 010

101 101

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3. A number line is shown below.



Insert the missing number in the box.

4. Complete the number sentence below.

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

5. Calculate 25×48 .

Answer _____

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A004

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?

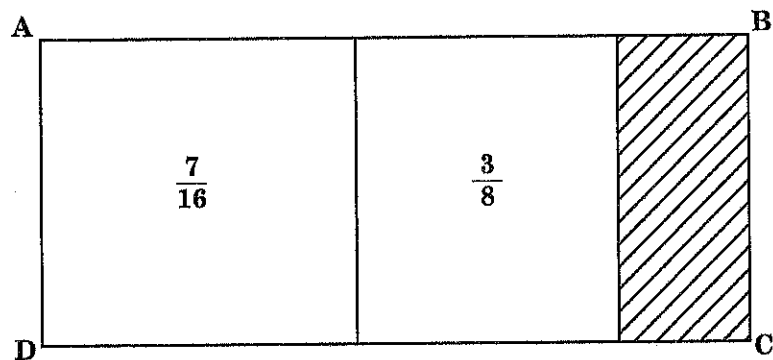
Answer _____ ¢

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?

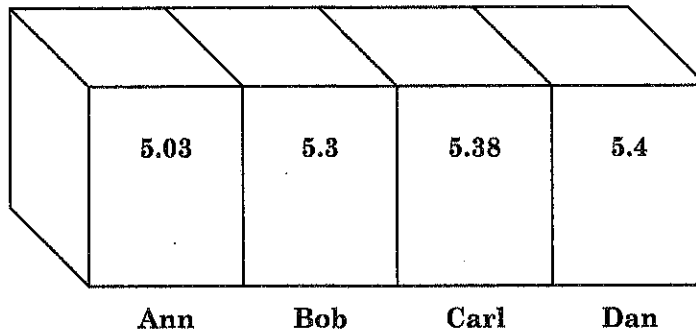
Answer _____ seedlings

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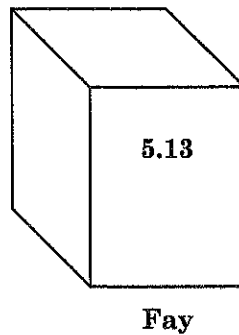
A004

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 _____

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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.

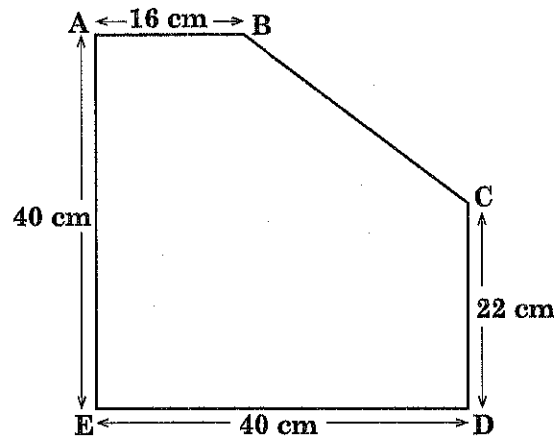
On what date should Jade return?

Answer _____ June

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A004

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



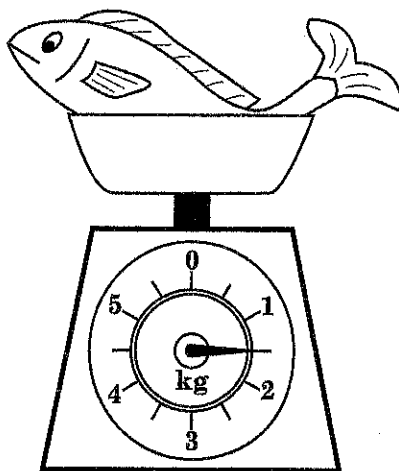
What is the length of BC?

Answer _____ cm

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



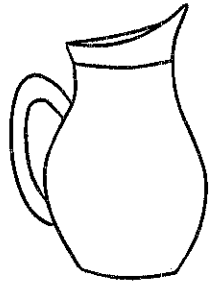
State the mass of the fish.

Answer _____ kg

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



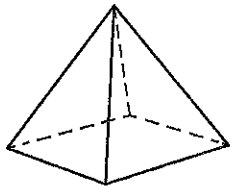
3 litres

250 ml

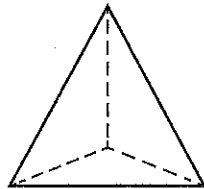
How many cups can be filled completely?

Answer _____ cups

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



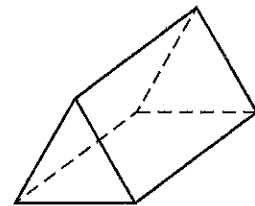
A



B



C

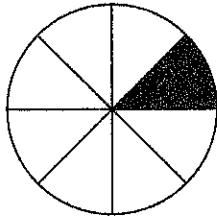


D

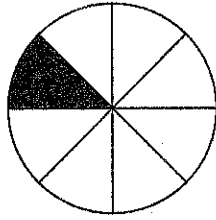
Which solid has a uniform cross-section in the shape of a triangle?

Answer _____

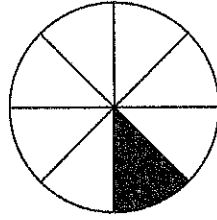
16. The first 4 elements of a pattern are shown below. Complete the 5th element.



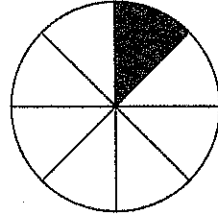
1st Element



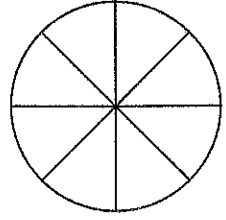
2nd Element



3rd Element



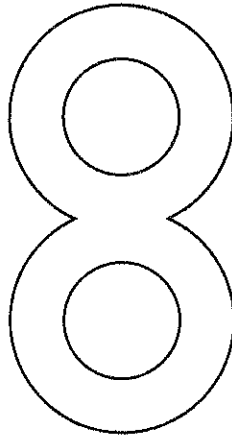
4th Element



5th Element

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



A004

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.

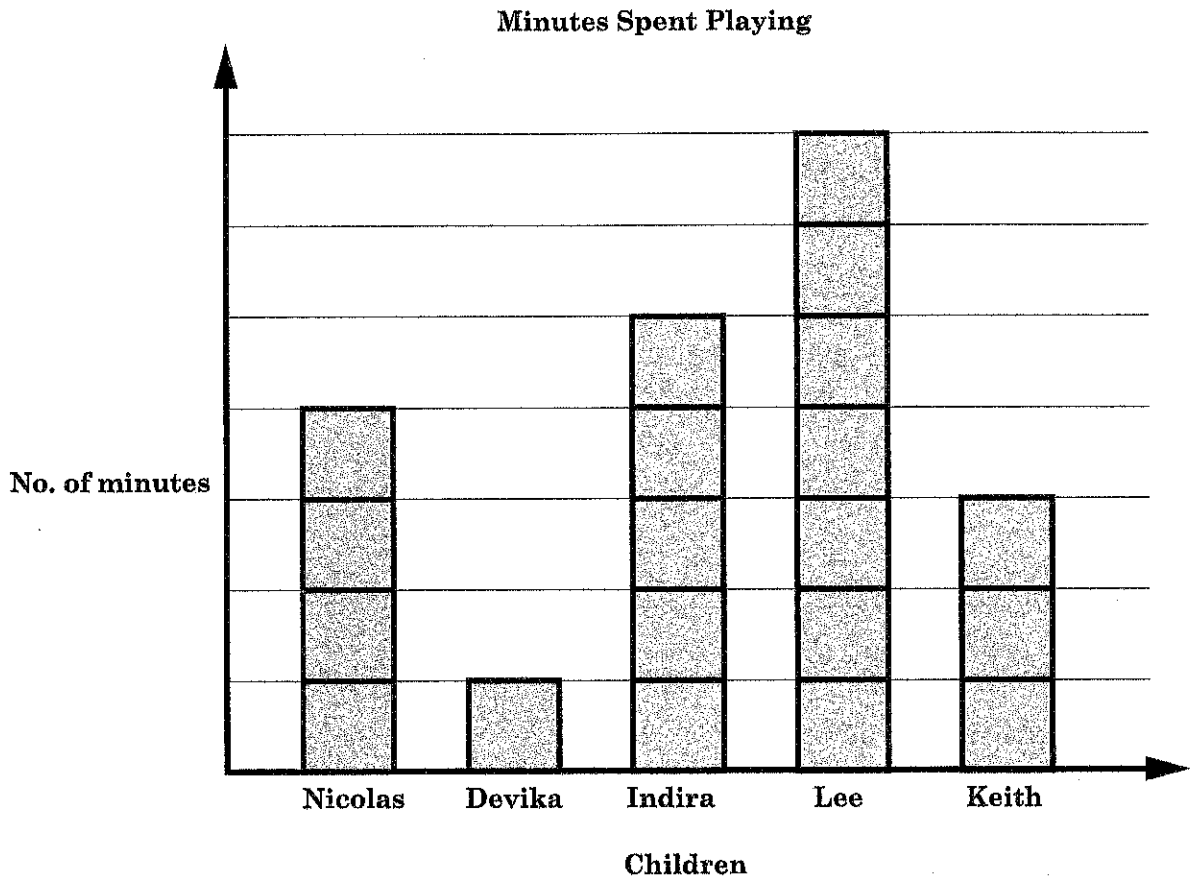
How many numbers are there in the set?

Answer _____ numbers

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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	\$ _____
Total			\$79.00

(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 \$ _____

(2 marks)

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.

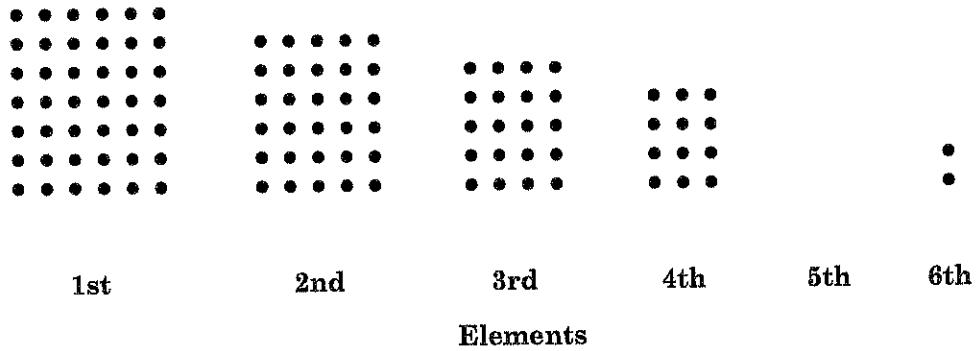
How many **more** balloons would he need to fill the last party bag?

Answer _____ balloons (3 marks)

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



Draw the 5th element and describe the pattern.

Answer _____

(3 marks)

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A004

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.

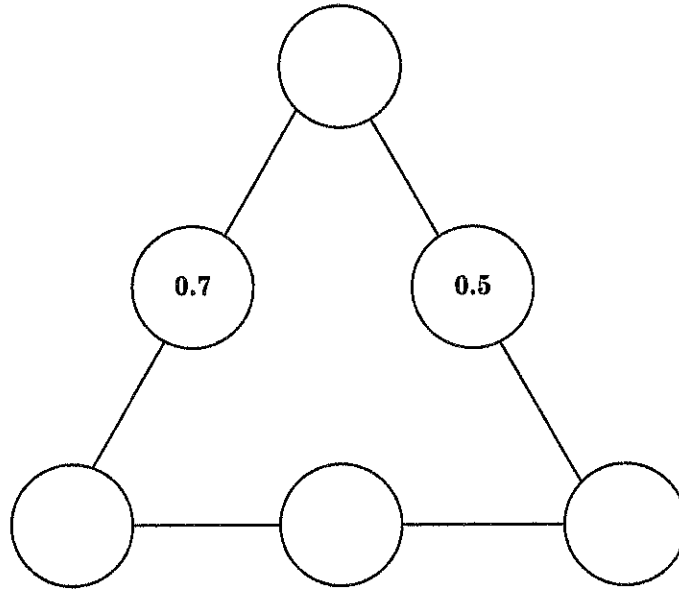
Answer \$ _____

(3 marks)

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A004

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.

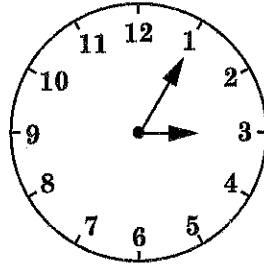


Use the decimals below to complete the triangle.

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.

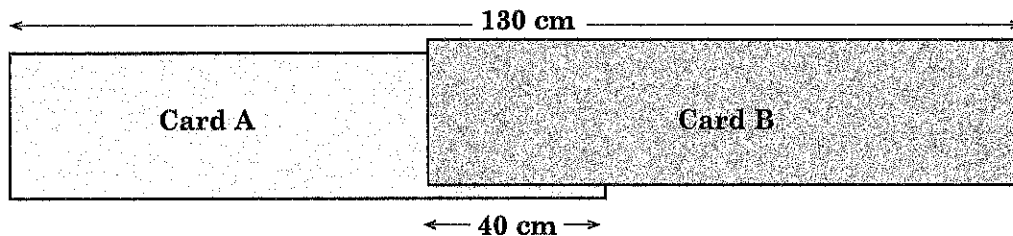


At what time did Aliya leave home?

Answer _____

(2 marks)

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

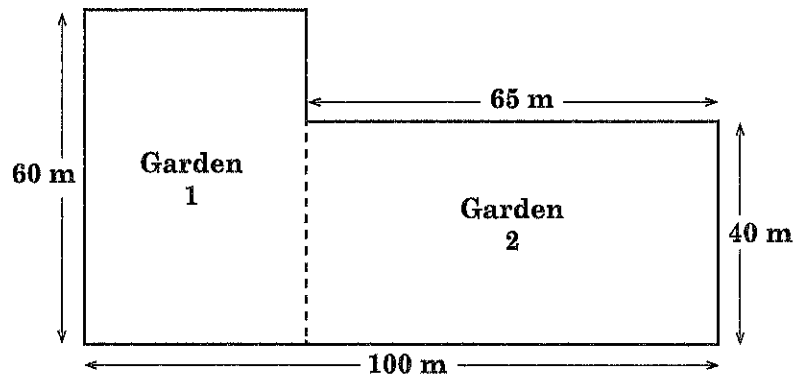


What was the length of **each** piece of cardboard before they were stuck together?

Answer _____ cm

(2 marks)

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



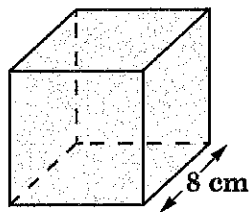
Mr. Dawson wants to build a fence around his entire land and between Garden 1 and Garden 2.

How many metres of fence will he need?

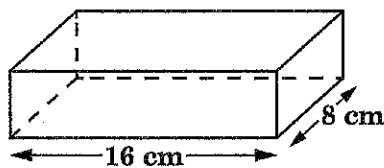
Answer _____ m

(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.

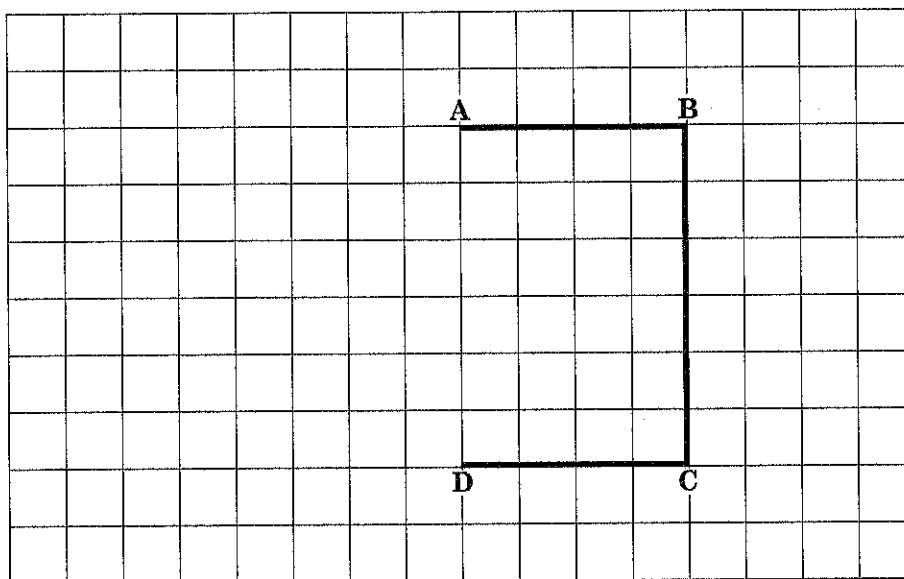
The water from Container A is poured into Container B.

What is the height of the water in Container B?

Answer _____ cm

(3 marks)

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)

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

Similarity	Difference

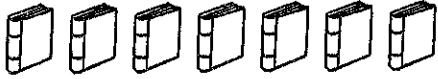

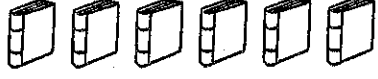
(2 marks)

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A004

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)

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A004

SECTION 3

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

15			
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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.

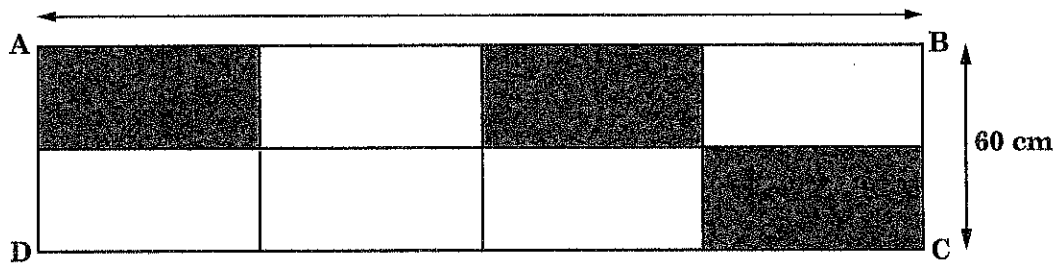
Determine the missing numbers.

Answer _____, _____, _____ (4 marks)

971

A004

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

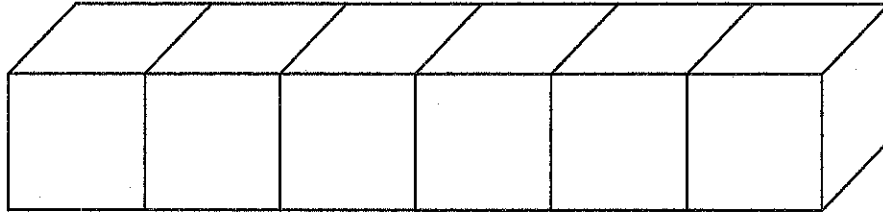


Calculate the length of AB, in metres.

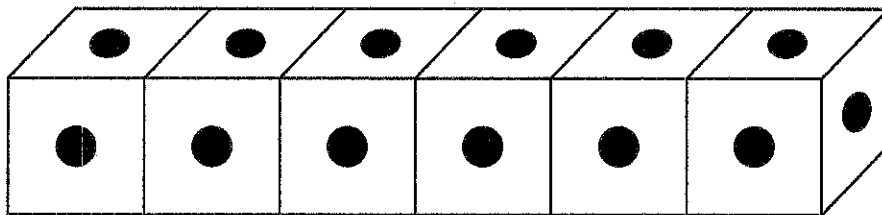
Answer _____ m

(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?

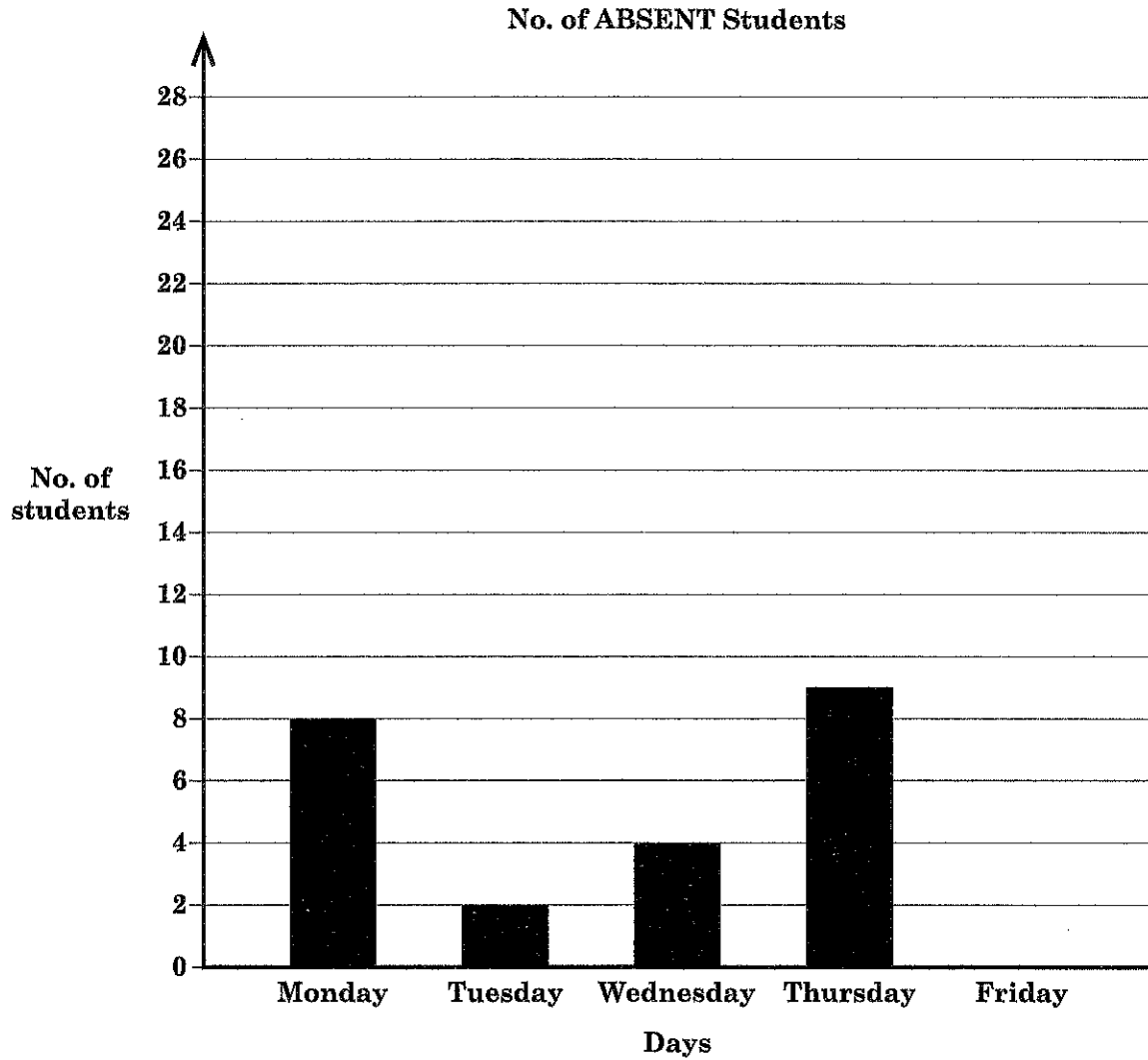
Answer _____ dots

- (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)

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A004

END OF TEST

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