

**Methodist Girls' School (Primary)**

**Primary 3**

**End-of-Year Examination (2007)**

**Mathematics**

**Name:** \_\_\_\_\_ (      )

**Class: Pr 3** \_\_\_\_\_

**Marks:**

## Section A (20 x 2 marks)

For each of the following questions, choose the correct answer and write its number in the brackets provided.

1.  $3\ 642 = 3\ 000 + 600 + 4 \times \square + 2.$

What is the missing number in the box?

- (1) 1
- (2) 10
- (3) 100
- (4) 1 000

( )

2.  $\heartsuit + \heartsuit + \star + \star + \star = 185.$

If each  $\heartsuit$  stands for 40, what is the value of each  $\star$ ?

- (1) 35
- (2) 37
- (3) 80
- (4) 105

( )

3. There were 1 200 concert tickets. Mrs Tan sold 345 tickets on Monday. She sold 60 more tickets on Tuesday than on Monday. How many tickets were left?

- (1) 405
- (2) 450
- (3) 750
- (4) 795

( )

4. Which of the following will complete the sequence ?

1, 3, 9, 27, \_\_\_\_\_

- (1) 45
- (2) 54
- (3) 72
- (4) 81

( )

5. What is the sum of \$1.65, \$4.50 and 45 cents?

- (1) \$5.55
- (2) \$5.60
- (3) \$6.55
- (4) \$6.60

( )

6. Which one of the following is the shortest?

- (1) 140 cm
- (2) 1 004 cm
- (3) 1 m 4 cm
- (4) 10 m 4 cm

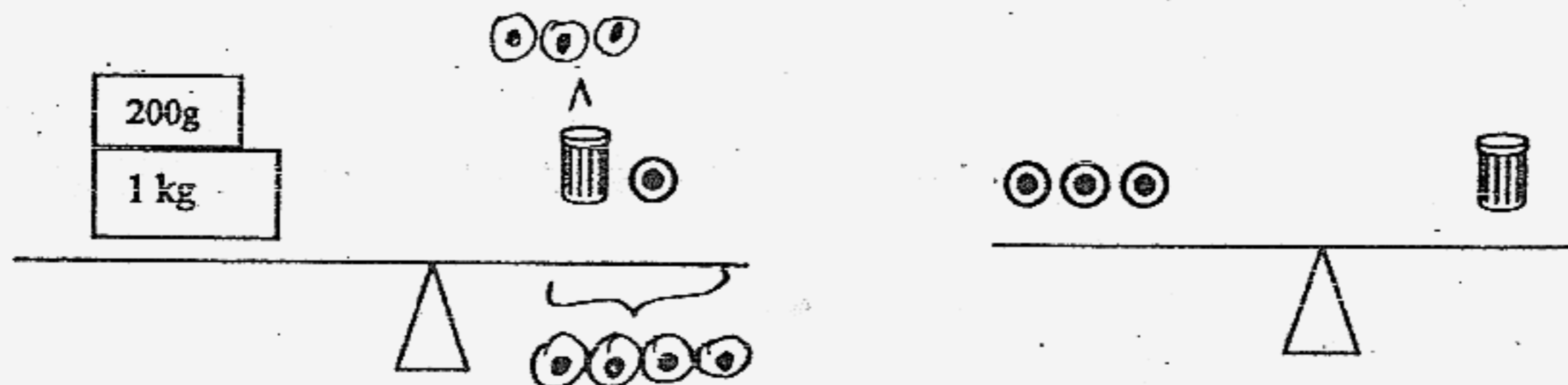
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7. Ali used 70 cm of ribbon to tie a parcel. What would be the length of ribbon needed to tie 8 such parcels?

- (1) 56 cm
- (2) 56 m
- (3) 5 m 6 cm
- (4) 5 m 60 cm

( )

8. Look at the figures below. What is the mass of one  $\odot$  ?



- (1) 120 g
- (2) 300 g
- (3) 400 g
- (4) 1 200 g

( )

9. Express 8 080 g in kg and g.

- (1) 8 kg 8 g
- (2) 8 kg 80 g
- (3) 80 kg 8 g
- (4) 80 kg 80 g

( )

10. A jug of coffee is able to fill 4 cups. If 400 ml of coffee can fill 5 such cups, how much coffee can the jug hold?

- (1) 80 ml
- (2) 100 ml
- (3) 320 ml
- (4) 1600 ml

( )

11. Express 2 h 35 min in minutes.

- (1) 95 min
- (2) 125 min
- (3) 155 min
- (4) 235 min

( )

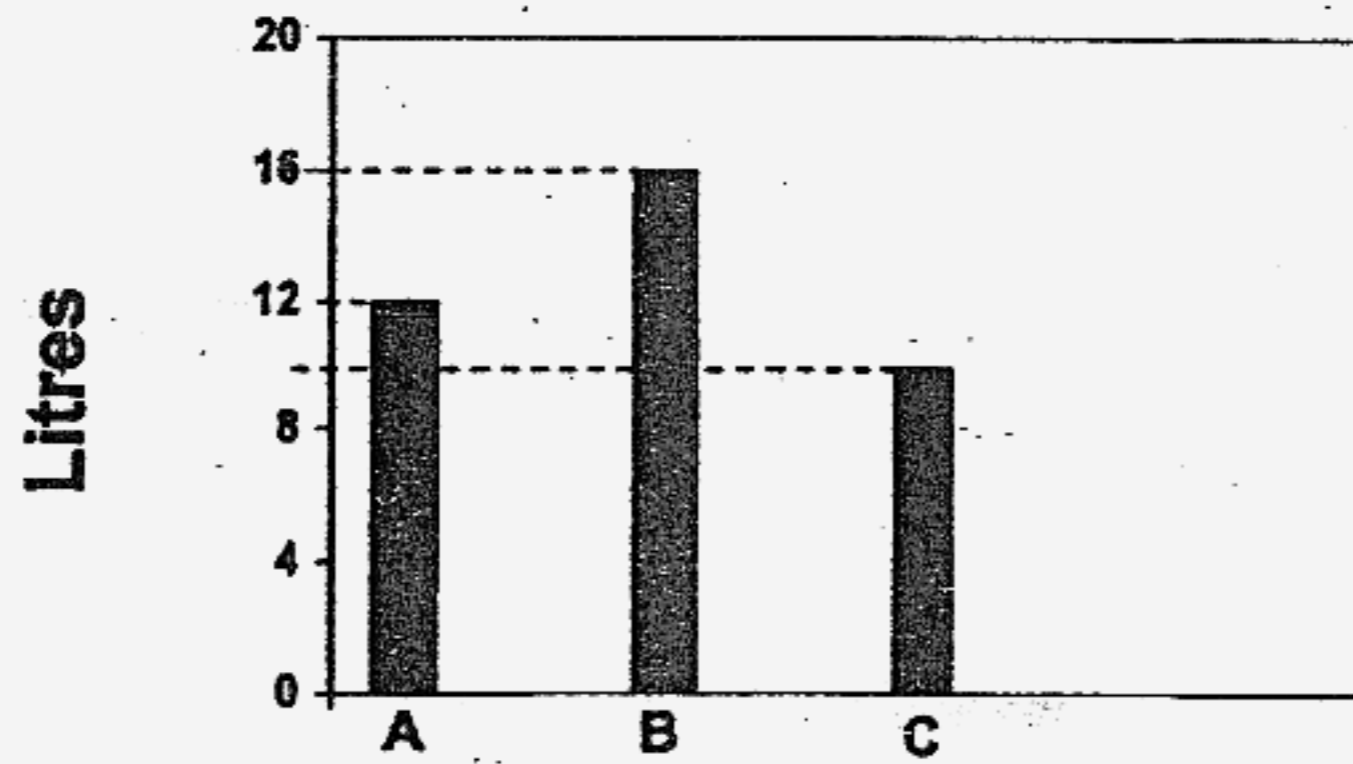
12. Lisa started working on her project at 2.45 p.m. She finished it at 5.05 p.m. How long did she take to complete her project?

- (1) 2 h 20 min
- (2) 2 h 30 min
- (3) 3 h 40 min
- (4) 3 h 50 min

( )

Study the graph below and answer questions 13 and 14.

The graph below shows the amount of water in 3 containers.



13. What is the total amount of water in containers A and B?

- (1) 22 l
- (2) 26 l
- (3) 28 l
- (4) 30 l

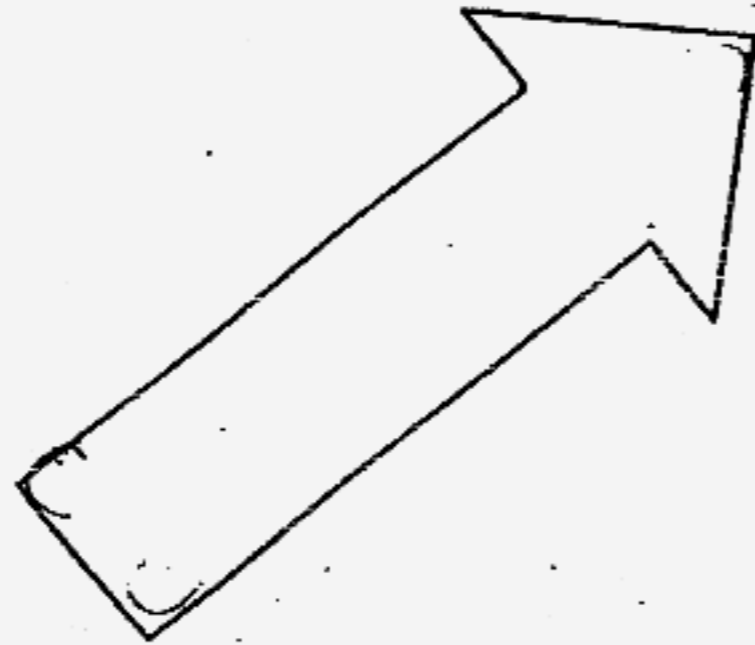
( )

14. How much water should be poured from container B into container C so that both containers would have the same amount of water?

- (1) 13 l
- (2) 2 l
- (3) 3 l
- (4) 26 l

( )

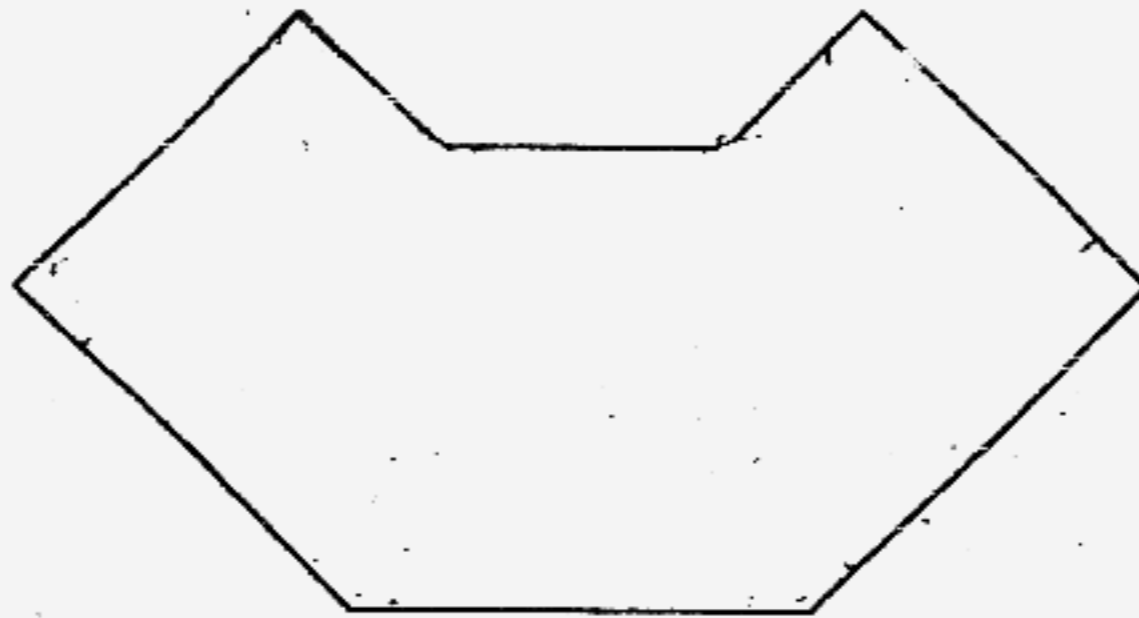
15. How many right angles are there inside the figure below?



- (1) 1
- (2) 2
- (3) 3
- (4) 4

( )

16. How many angles are there inside the figure below?



- (1) 10
- (2) 8
- (3) 6
- (4) 4

( )

17. Which one of the following figures shows that  $\frac{1}{3}$  of it is shaded?

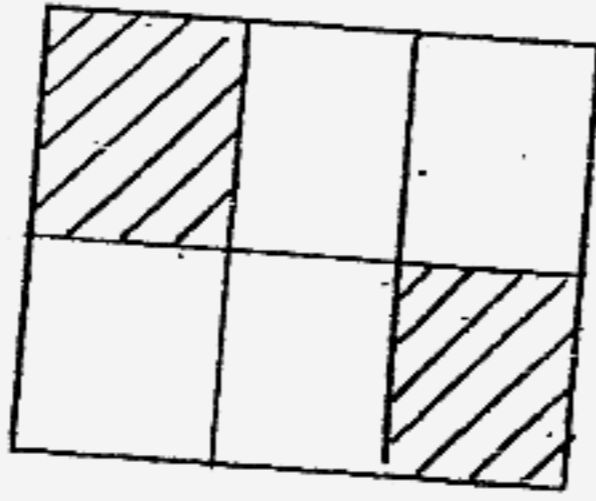


Figure 1

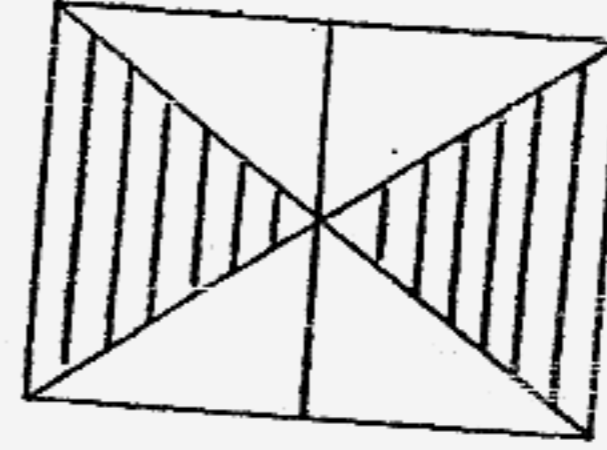


Figure 2

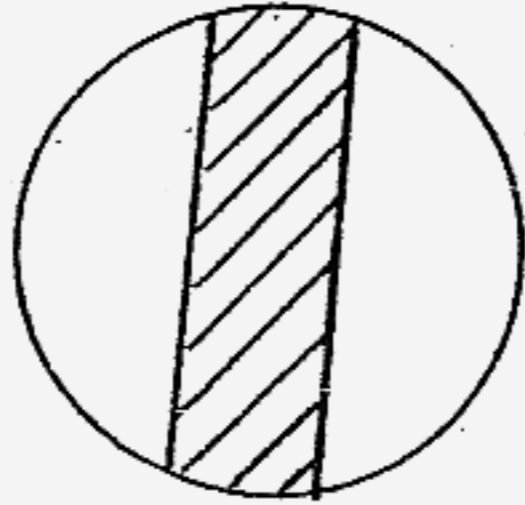


Figure 3

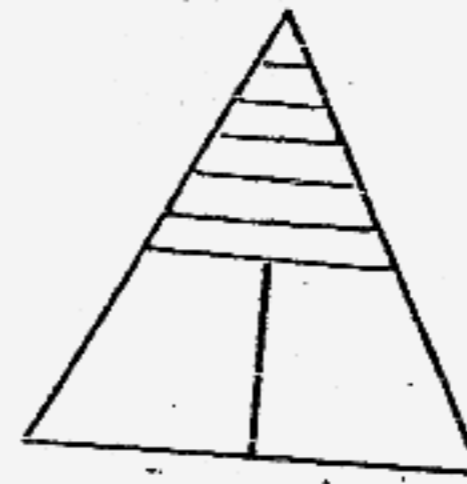


Figure 4

- (1) Figure 1
- (2) Figure 2
- (3) Figure 3
- (4) Figure 4

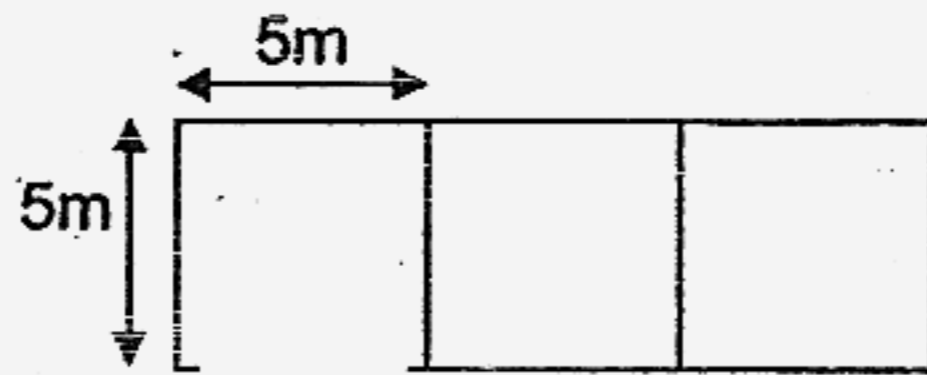
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18. Which one of following is the equivalent of  $\frac{3}{4}$  ?

- (1)  $\frac{4}{8}$
- (2)  $\frac{8}{12}$
- (3)  $\frac{13}{16}$
- (4)  $\frac{15}{20}$

( )

19. The figure below is made up of three 5m-square. What is the area of the figure?



- (1) 25 m<sup>2</sup>
- (2) 40 m<sup>2</sup>
- (3) 50 m<sup>2</sup>
- (4) 75 m<sup>2</sup>

( )

20. The perimeter of the rectangle below is 90cm. The length of the rectangle is twice as long as its breadth. What is the breadth of the rectangle?



- (1) 15 cm
- (2) 22 cm
- (3) 30 cm
- (4) 45 cm

( )



**Section B ( 20 x 2marks)**

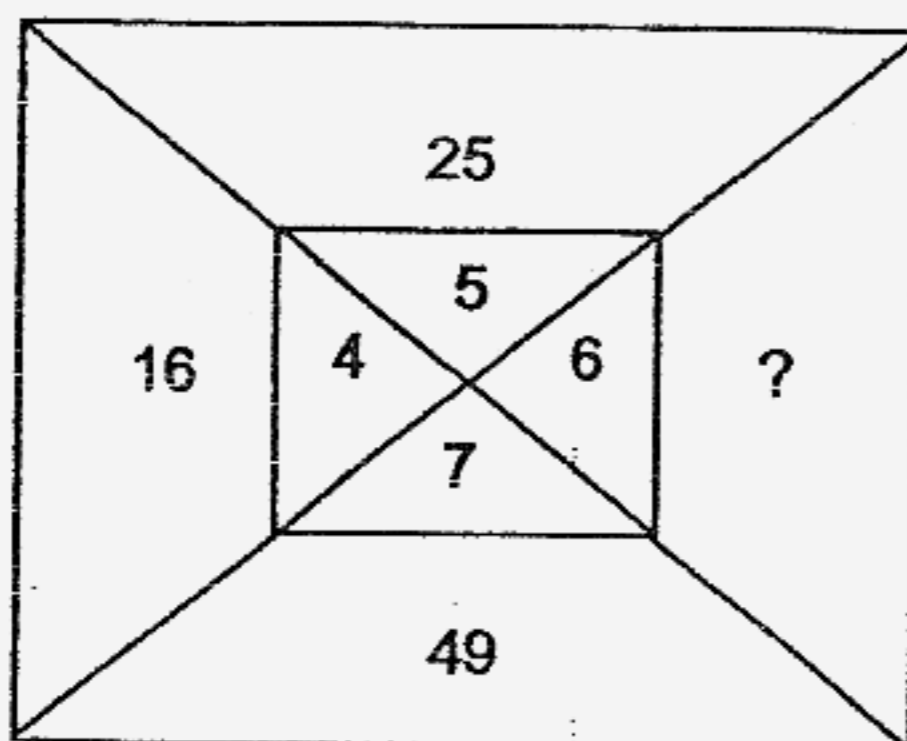
For each of the following questions, write your answers in the boxes provided. Give your answers in the units stated. Show your working clearly.

21.  $13 + 14 + 25 + 26 = \square \times 3$   
 What is the missing number in the box?

22. Gopal bought 18 bags of rice. Each bag of rice weighed 5 kg. He then repacked them into bags of 2 kg each. How many bags would he have?

23. Betty and her sister had 36 marbles altogether. Both of them had the same number of marbles after Betty had given her sister 8 marbles. How many marbles did Betty's sister have at first?

24. What is the missing number?



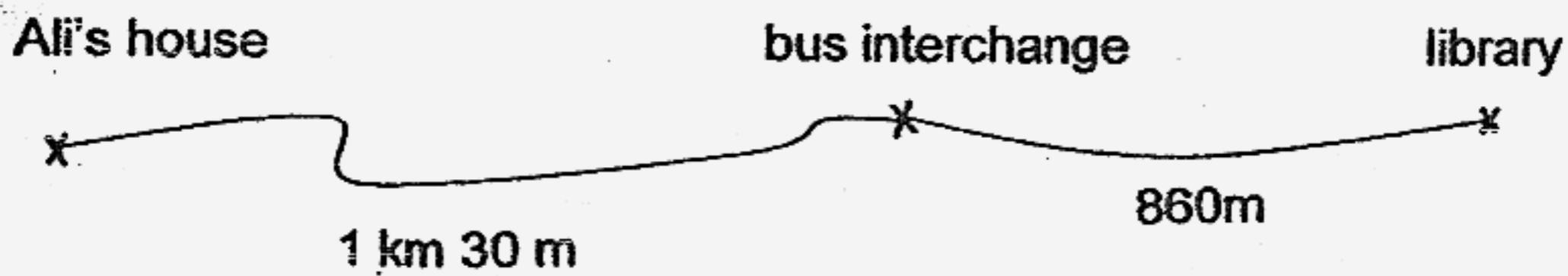
25. Jenny has 2 ten-dollar notes, some \$5 notes and some \$2 notes. She has \$50, how many \$5 notes and \$2 notes has Jenny?

_____	\$5-notes and
_____	\$2-notes

26. May has \$5. She wants to buy a book which costs \$6.40. If she saves 50 cents each week, how long will it take her to save enough money to buy the book?

_____	weeks
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Look at the diagram below and answer question 27.

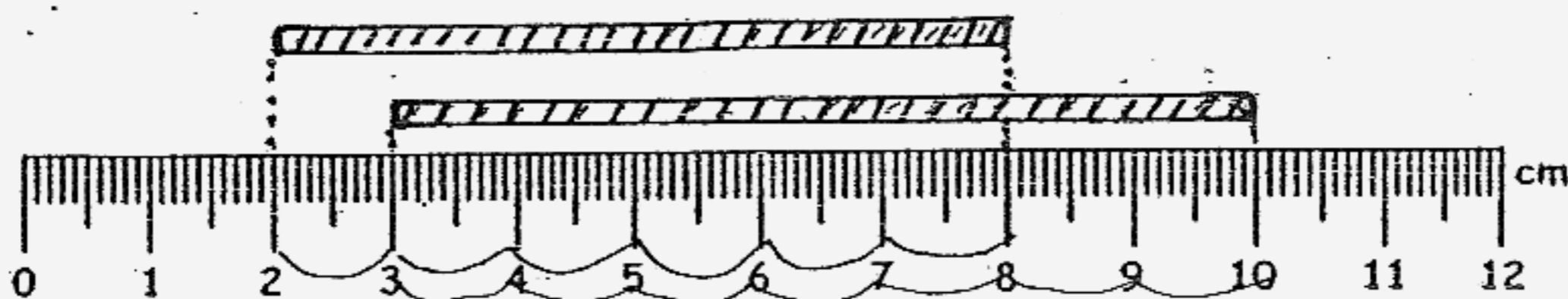


27. Ali cycled to the bus interchange from his house and then to the library. What was the distance he had cycled?

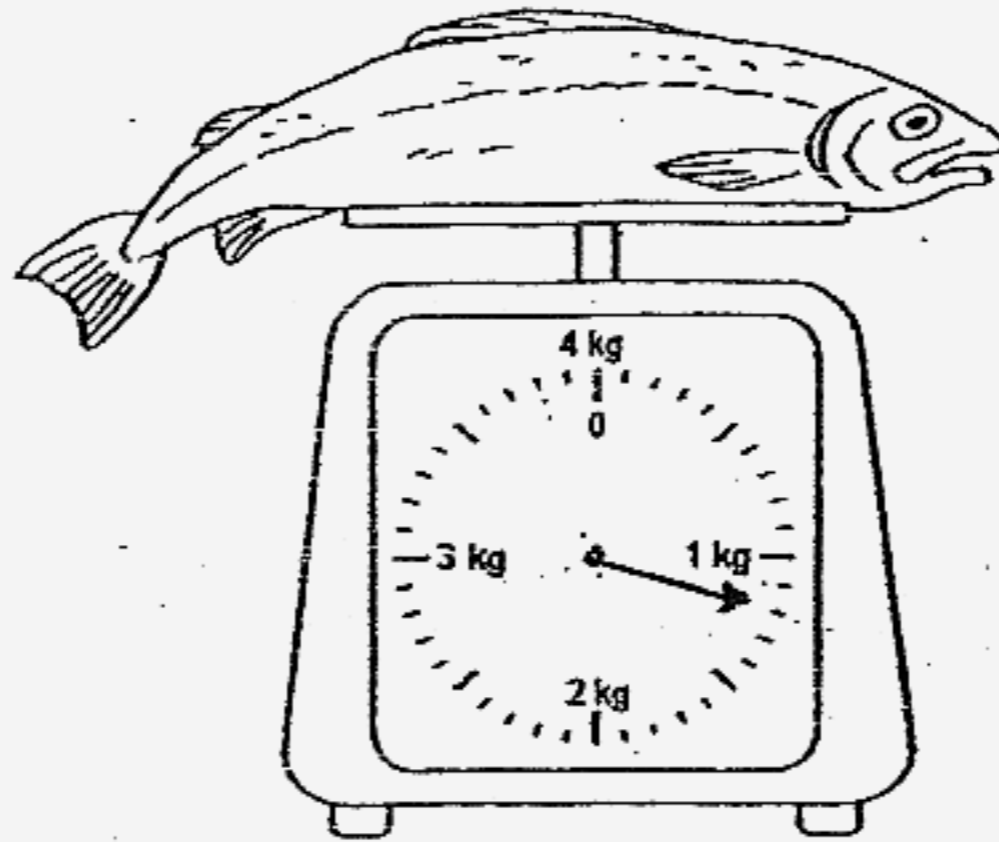
_____	m
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28. Look at the figure below. What is the total length of the 2 rods?





_____	cm
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29. Look at the weighing scale below. What is the mass of the fish?



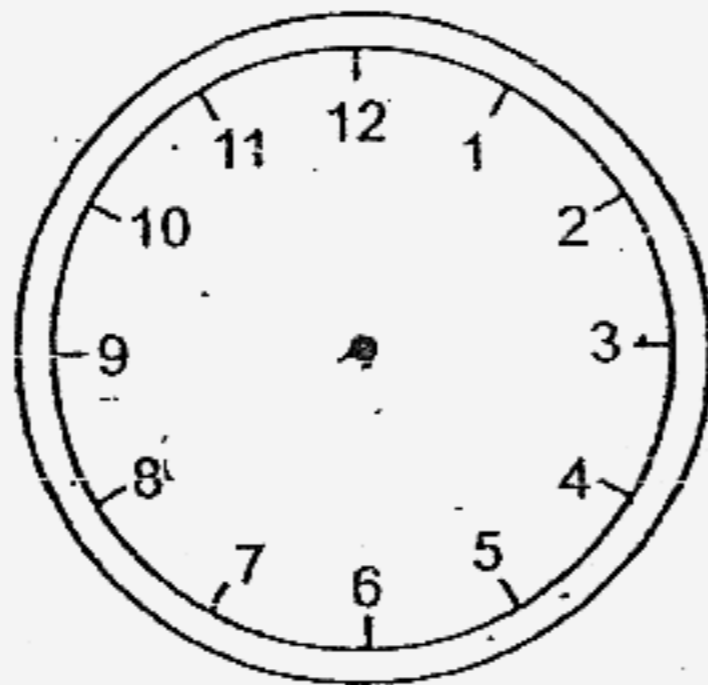

30. The capacity of a pail is 3 l. It has 1 l 200 ml of water in it. How much more water is needed to fill it to its brim?

31. If    represent 27 dogs, how many  must Samy draw if he wants to represent 54 dogs?

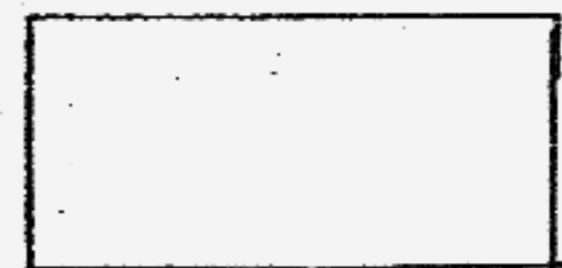
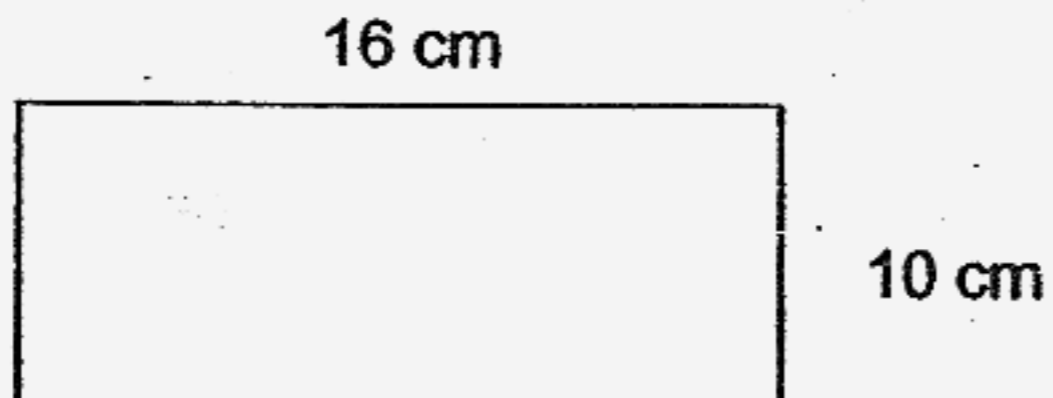
32. The musical 'Three Little Pigs' ended at 9.30 p.m. The show was 1 hour 45 minutes long. At what time did the show begin?



33. The time is 20 minutes to 7. Draw the hands of the clock to show the time.



34. What is the most number of 4-cm squares that can be cut from the rectangle below?

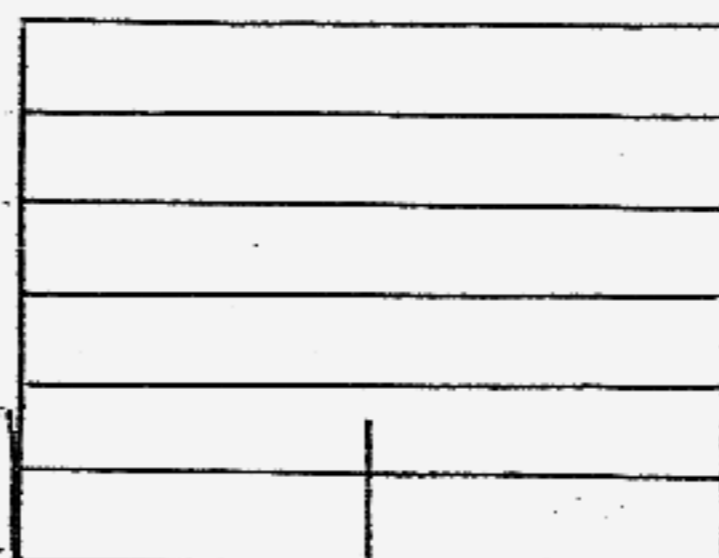


35. Arrange the following fractions beginning with the greatest.

$$\frac{4}{8}, \frac{4}{6}, \frac{4}{7}$$

36. Mrs Tan cut her cake into 15 equal pieces. At the end of the party, 3 pieces of cake were left. What fraction of the cake was left? (Give your answer in the simplest form)

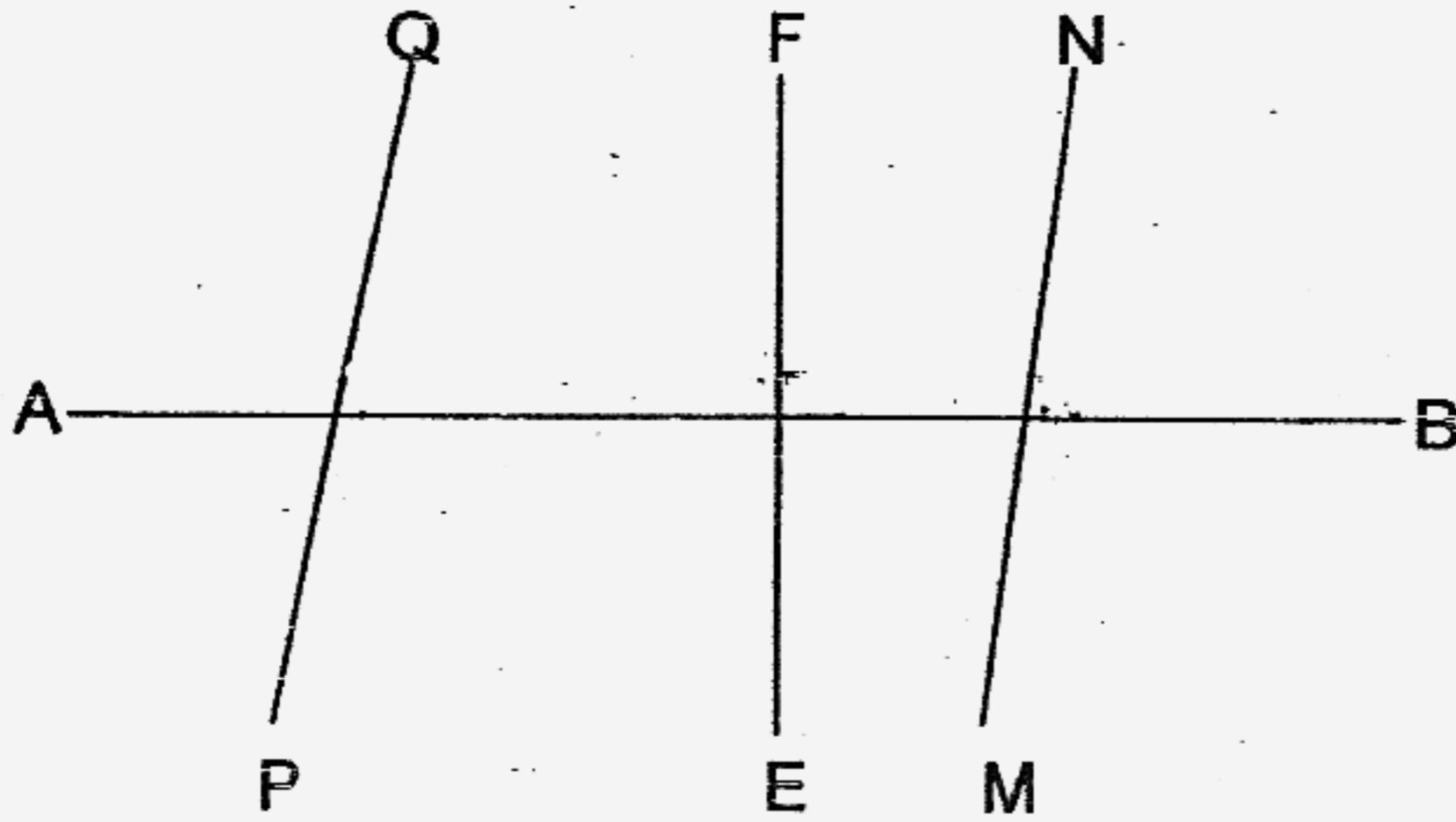
37. The cake below was cut into 12 equal slices. Ahmad ate  $\frac{2}{3}$  of the cake. Shade to show the number of slices eaten by Ahmad.



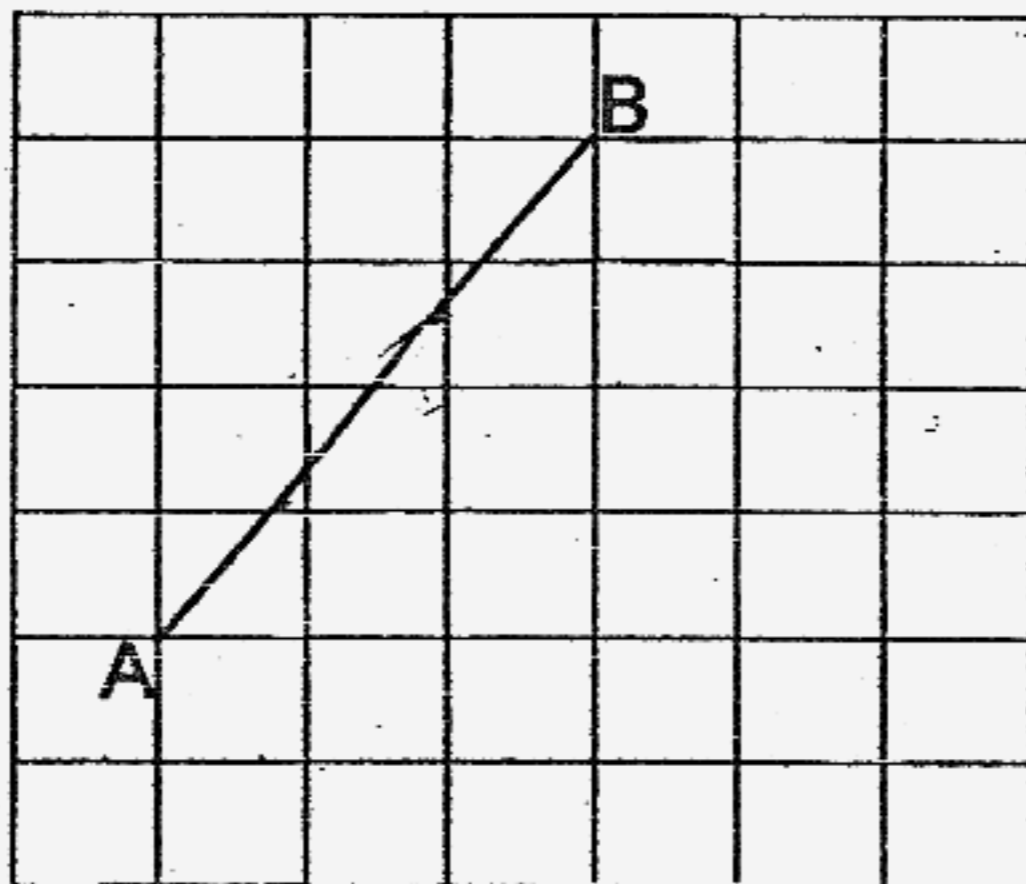
38. The area of a rectangular field is 126 m<sup>2</sup>. If the breadth of the field is 7 m, what is the length of the field?

m

39. Look at the figure below and name the pair of perpendicular lines.



40. In the grid below, draw a line CD parallel to line AB.



**Section C ( 5 x 4 marks)**

Solve the following problems. Show all your workings clearly,

41. Mr Lim had \$1 000. He bought a sofa set for \$399 and a television for \$240. How much would he have left?

42. 210 children were grouped equally into 3 teams. There were 4 times as many girls as boys in each team.  
a) How many children were there in each team?  
b) How many boys were there in each team?

43. Mrs Raju had 1 m of cloth. She used  $\frac{1}{2}$  m to make a pillow case and  $\frac{3}{10}$  m to make a dress for her daughter's Barbie doll. What was the length of the cloth left? Give your answer in its simplest form.

44. The figure below is made up of 3 similar rectangles.  
 a) What is the total shaded area?  
 b) What is the perimeter of the shaded figure?





45. At 2.30 p.m., Ali and his brother, Ahmad began working on their jig-saw puzzles. Ali took 1 h 45 min to complete his puzzle while his brother took 100 minutes.
- a) Who completed his puzzle first?
  - b) What was the difference in the time taken?
  - c) At what time did Ali complete his puzzle?

End of Paper

**MGS Primary School  
Primary 3 SA2 Maths Exams (2007)**

*Answer Keys*

- |       |       |       |       |       |
|-------|-------|-------|-------|-------|
| 1) 2  | 2) 1  | 3) 2  | 4) 4  | 5) 4  |
| 6) 3  | 7) 4  | 8) 2  | 9) 2  | 10) 3 |
| 11) 3 | 12) 1 | 13) 3 | 14) 3 | 15) 3 |
| 16) 2 | 17) 1 | 18) 4 | 19) 4 | 20) 1 |

21. 26

22. 45 books

23. 10 marbles

24. 36

25. 4, 5

26. 3

27. 1890m

28. 13cm

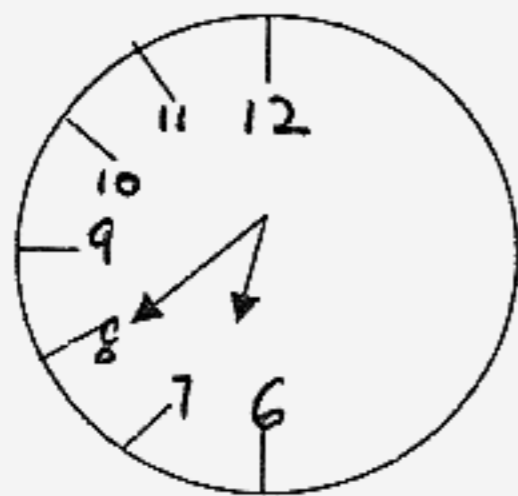
29. 1kg 200g

30. 1800ml

31. 6

32. 7.45pm

33.

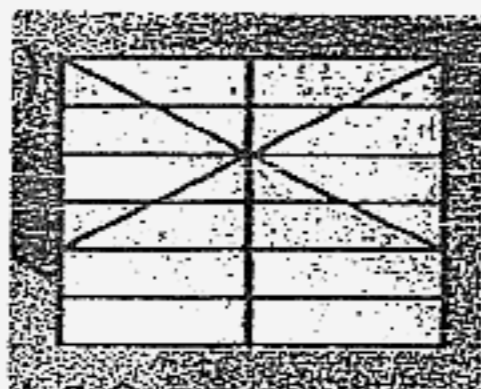


34. 84cm<sup>2</sup>

35.  $\frac{4}{6}, \frac{4}{7}, \frac{4}{8}$

36.  $\frac{1}{5}$

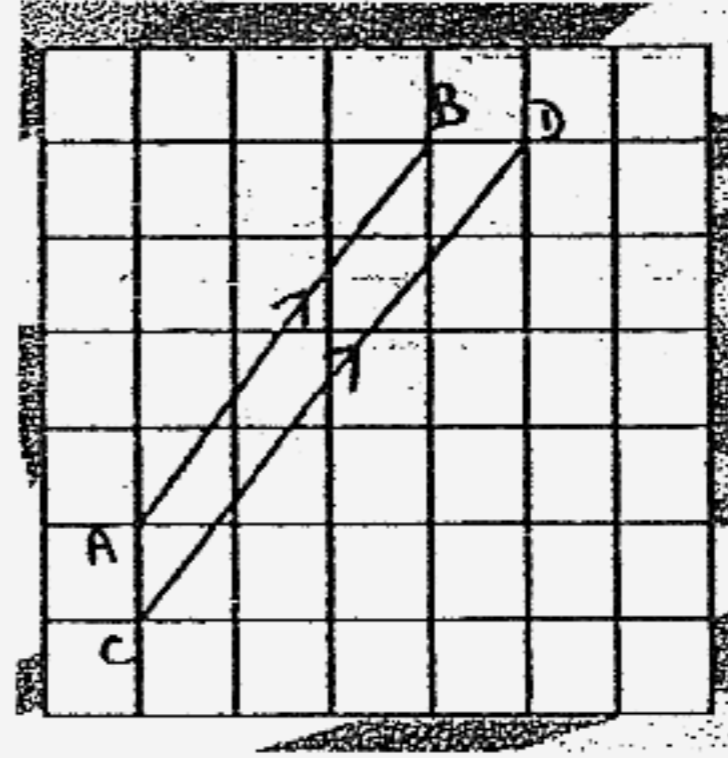
37.



38. 18m

39.  $FE \perp AB$

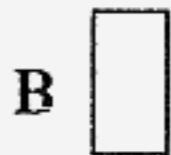
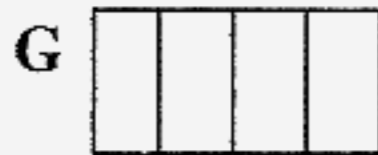
40.



41.  $\$240 + \$399 = \$639$   
 The television and sofa was \$639  
 $\$1000 - \$39 = \$361$   
 Mr Lim would have \$361 left.

42a.  $210 \div 3 = 70$   
 There were 70 children in each team.

42b.



$70 \div 5 = 14$   
 There were 14 boys in each team.

43.  $1 - \frac{5}{10} - \frac{3}{10} = \frac{2}{10}$   
 $\frac{2}{10} = \frac{1}{5}$

The length of cloth left was  $\frac{1}{5}$  m.

44a.  $8\text{m} \times 3\text{m} = 24\text{m}^2$

The total area of shaded part is  $24\text{m}^2$

44b.  $4\text{m} + 5\text{m} + 4\text{m} + 4\text{m} + 4\text{m} + 5\text{m} = 26\text{m}$

The perimeter of the shaded part is  $26\text{m}$

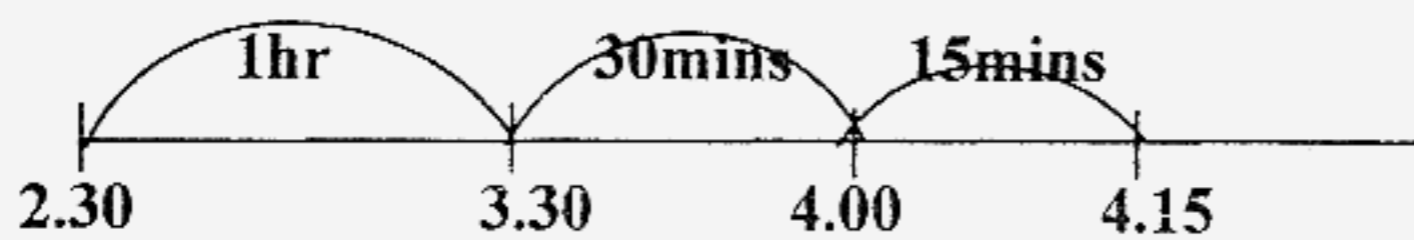
45a.  $100\text{min} = 1\text{hr } 40\text{mins}$

Ahmad competed the puzzle first.

45b  $1\text{hr } 45\text{mins} - 1\text{hr } 40\text{min} = 5\text{mins}$

The difference in the time taken is  $5\text{mins}$

45c.



Ali completed his puzzle at 4.15pm