

Methodist Girls' School (Primary)

End-of-Year Examination 2006

Primary Three

Mathematics

Name : _____ ()

Class : Pr 3 _____

Marks : _____

Section A (20 x 2marks)

Read each question carefully. Choose the correct answer and write its number in the brackets provided.

1. What is the value of $50\,000 + 4\,000 + 6$?
(1) 546
(2) 5 406
(3) 54 006
(4) 54 406
()

2. What is the difference between 3 486 and 3 846?
(1) 360
(2) 366
(3) 440
(4) 460
()

3. A machine can produce 160 packets of noodles in one minute. How many packets of noodles can it produce in 5 minutes?
(1) 500
(2) 505
(3) 800
(4) 805
()

4. $6 \times 8 = \square + 8 + 8$
What is the missing number in the box?
(1) 32
(2) 36
(3) 40
(4) 48
()

5. Which one of the following distances is the shortest?
(1) 30 km
(2) 330 m
(3) 33 030 m
(4) 3 km 300 m
()

6. Mrs Raju bought 2 m 30 cm of white cloth and 95 cm of blue cloth to make a blouse and skirt for her daughter. What was the total length of cloth she bought?

- (1) 1 m 25 cm
- (2) 2 m 25 cm
- (3) 3 m 20 cm
- (4) 3 m 25 cm

()

7. A baker had 4 kg of flour. He used half of it to bake a cake and 725 g to bake some pies. What was the mass of the flour left?

- (1) 1 kg 225 g
- (2) 1 kg 275 g
- (3) 2 kg 225 g
- (4) 2 kg 275 g

()

8. A flask holds 500 ml of water. A glass holds 280 ml less than the flask. How much water can 10 such glasses hold?

- (1) 220 ml
- (2) 2 l 2 ml
- (3) 2 l 20 ml
- (4) 2 l 200 ml

()

9. The capacity of jug A is 1 l 500 ml. The capacity of jug B is 900 ml. What is the difference between the capacity of the two jugs?

- (1) 100 ml
- (2) 300 ml
- (3) 600 ml
- (4) 1 l 400 ml

()

10. How long does it take for the minute hand to move from the digit 4 to the digit 9 on the face of the clock?

- (1) 4 minutes
- (2) 5 minutes
- (3) 9 minutes
- (4) 25 minutes

()

11. James took 2 min 15 s to swim from one end of the pool to the other end. How many seconds did he take?

- (1) 74 s
- (2) 120 s
- (3) 135 s
- (4) 215 s

()

12. A handbag costs \$89. Janet has only \$45.50 with her. How much more money does she need?

- (1) \$ 43.50
- (2) \$ 44.50
- (3) \$124.50
- (4) \$134.50

()

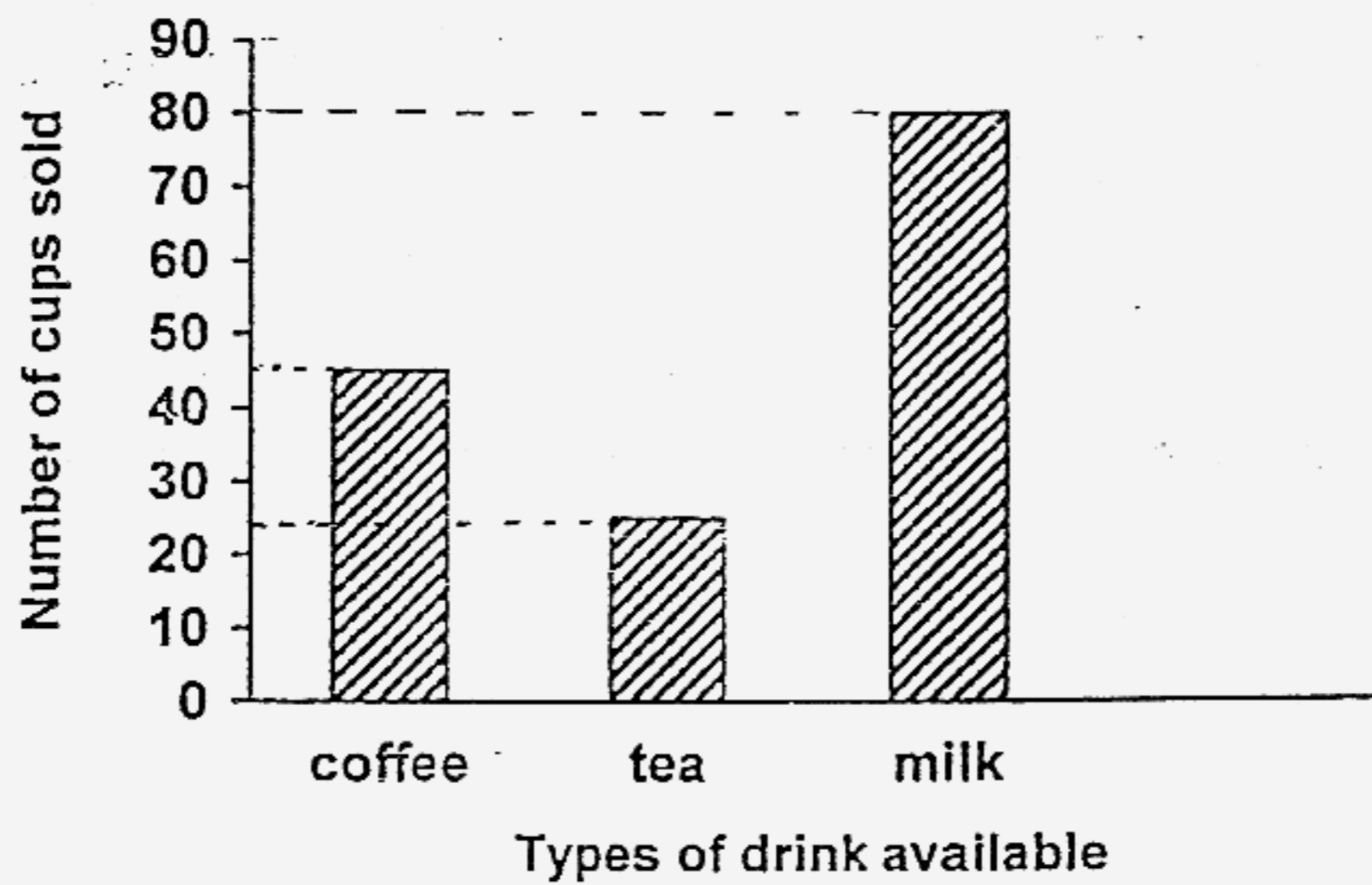
13. Gopal had 4 fifty-cent coins and 6 twenty-cent coins. He spent \$1.30 on a drink. How much had he left?

- (1) \$1.90
- (2) \$2.30
- (3) \$3.20
- (4) \$4.70

()

Look at the graph below and answer questions 14 & 15.

The graph below shows the different types of drinks sold by a hawker on a Monday morning.



14. How many people drank coffee and tea for breakfast?

- (1) 25
- (2) 45
- (3) 70
- (4) 80

()

15. Each cup of milk was sold at 60 cents. How much did the hawker collect from the sale of the milk?

- (1) \$4.80
- (2) \$48
- (3) \$480
- (4) \$4 800

()

16. Which one of the following figures does not have $\frac{3}{4}$ of it shaded?

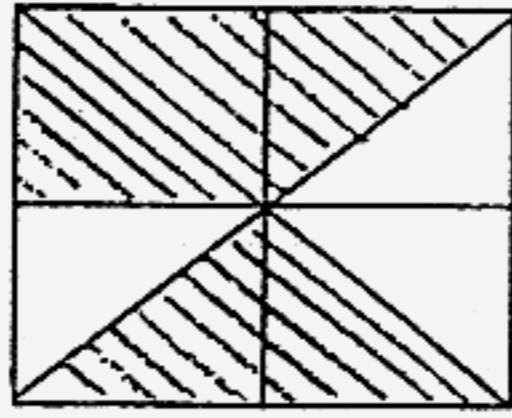


Figure A

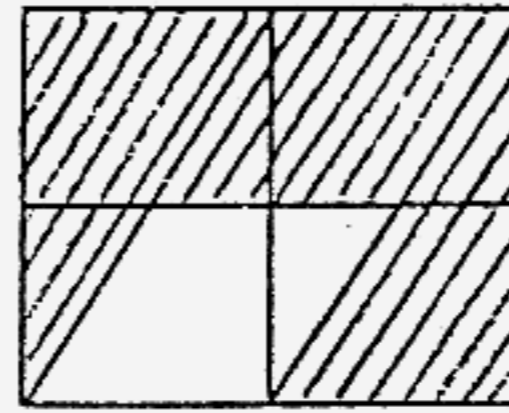


Figure C

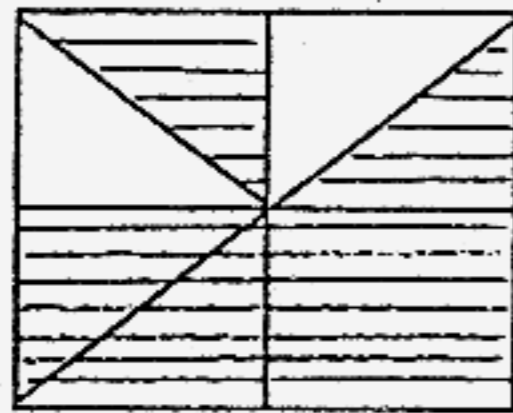


Figure B

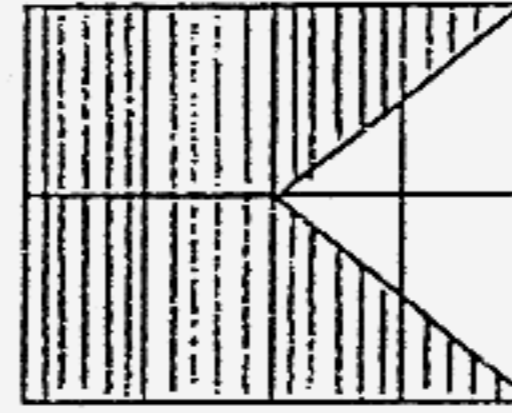


Figure D

- (1) A
 (2) B
 (3) C
 (4) D

()

17. A pie was cut into 12 equal pieces. My friend ate 1 piece and I ate 2 pieces. What fraction of the pie was left?

- (1) $\frac{1}{12}$
 (2) $\frac{2}{12}$
 (3) $\frac{3}{12}$
 (4) $\frac{9}{12}$

()

18. Which one of the following figures shows a pair of perpendicular lines?

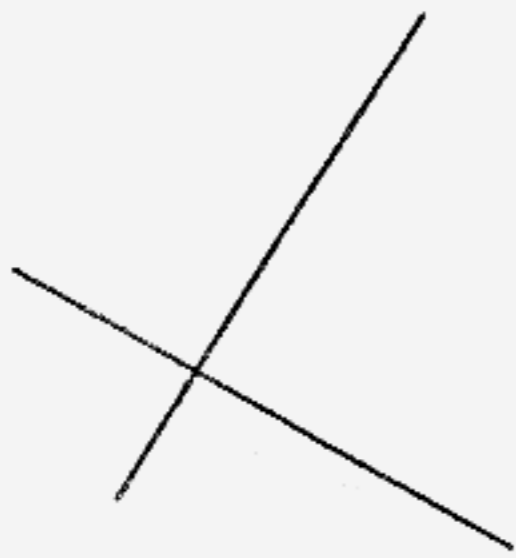


Figure A



Figure B

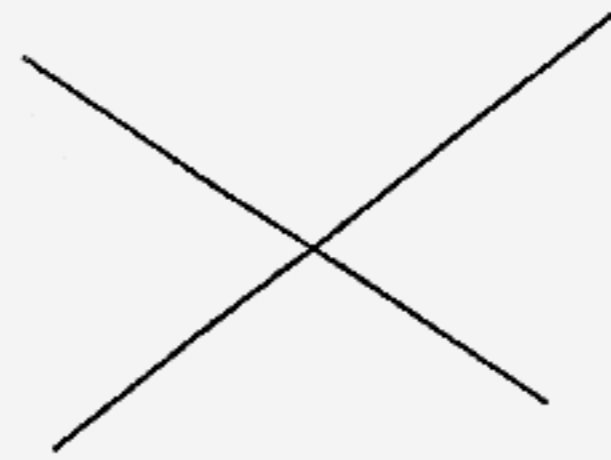


Figure C

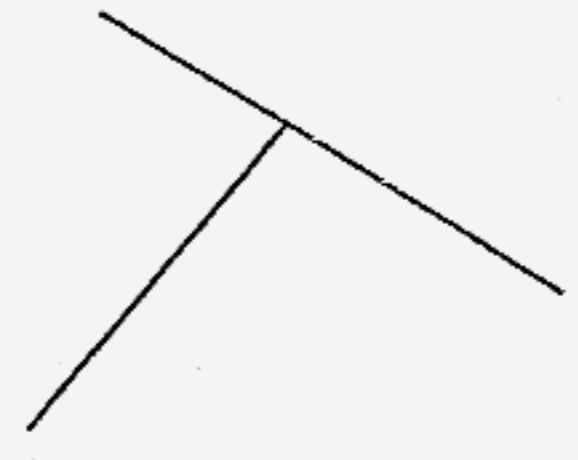
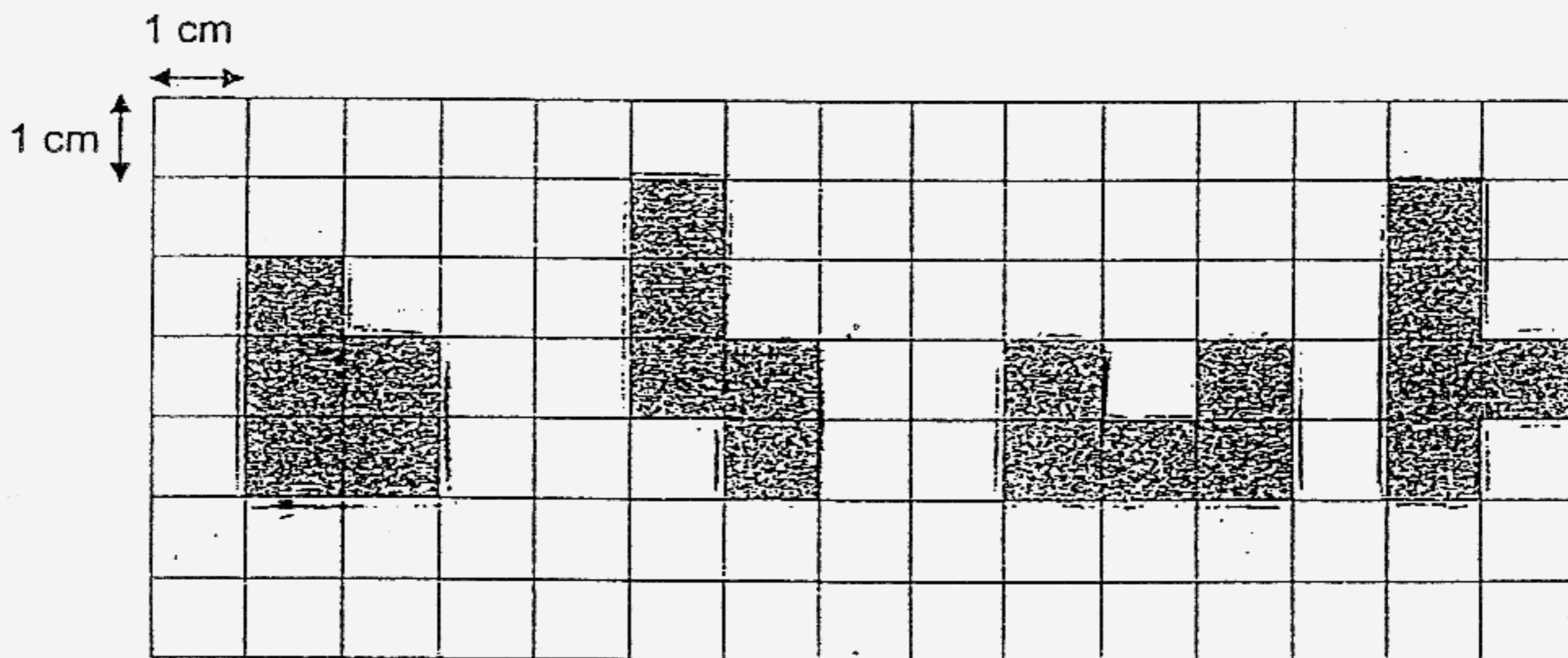


Figure D

- (1) Figure A
- (2) Figure B
- (3) Figure C
- (4) Figure D

()

19. Which of the following figures have the same perimeter?



A

B

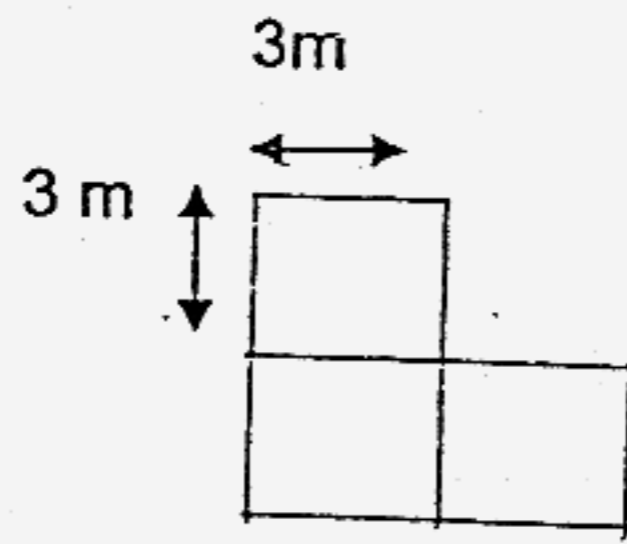
C

D

- (1) A and B
- (2) A and C
- (3) A and D
- (4) B and C

()

20. The figure below is made up of 3 similar squares. What is the area of the figure?



- (1) 9 m^2
- (2) 24 m^2
- (3) 27 m^2
- (4) 30 m^2

()

Section B (20 x 2 marks)

Write your answers in the boxes provided. Show your working clearly in the space provided.

21. What is 20 000 more than $368 + 799$?

22. Arrange the following numbers in order.

3 428, 3 482, 3 248, 3 824

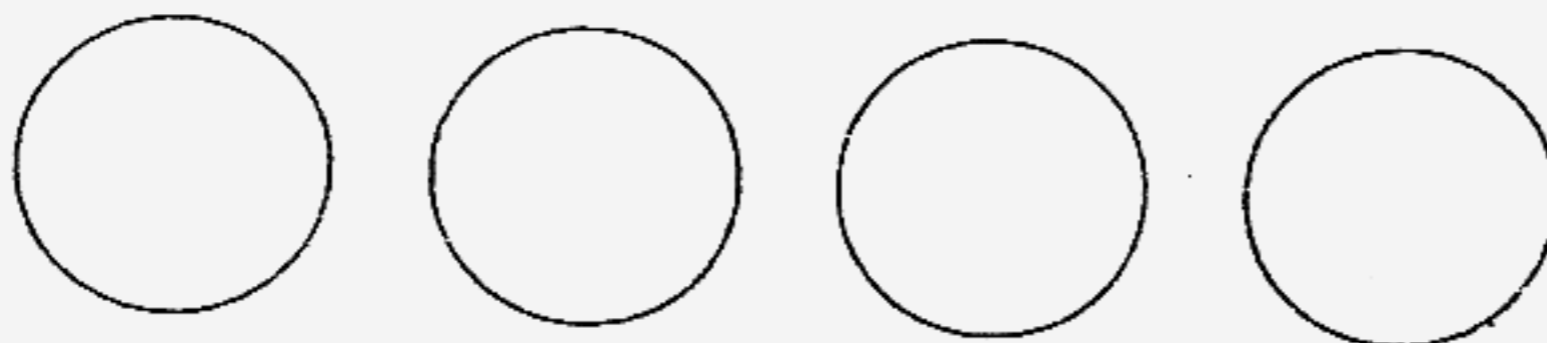
smallest	greatest
----------	----------

23. Mrs Lee baked 290 mooncakes. She put the mooncakes into boxes of 8. How many boxes did she have and how many mooncakes were left?

boxes	left
-------	------

24. Ben needs 3 360 ice-cream sticks to make a model. He has 5 packets of ice-cream sticks. Each packet contains 250 sticks. How many *more* ice-cream sticks does he need?

25. Ah Seng has 4 coins in his pocket. The total value of the 4 coins is \$1.40. Fill in the value of the coins in his pocket.



26. X 5 = 90 ÷ 3

What is the missing number in the box?

27. The mass of 2 fishes is 4 kg. If the mass of 1 fish is 1 kg 280 g, what is the mass of the other fish?

 kg g

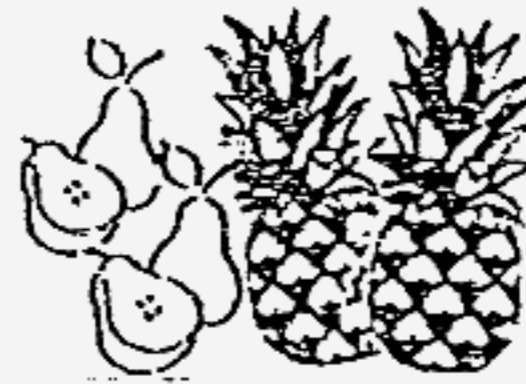
28. What is the mass of the pears?



**Pineapples
& grapes
985 g**



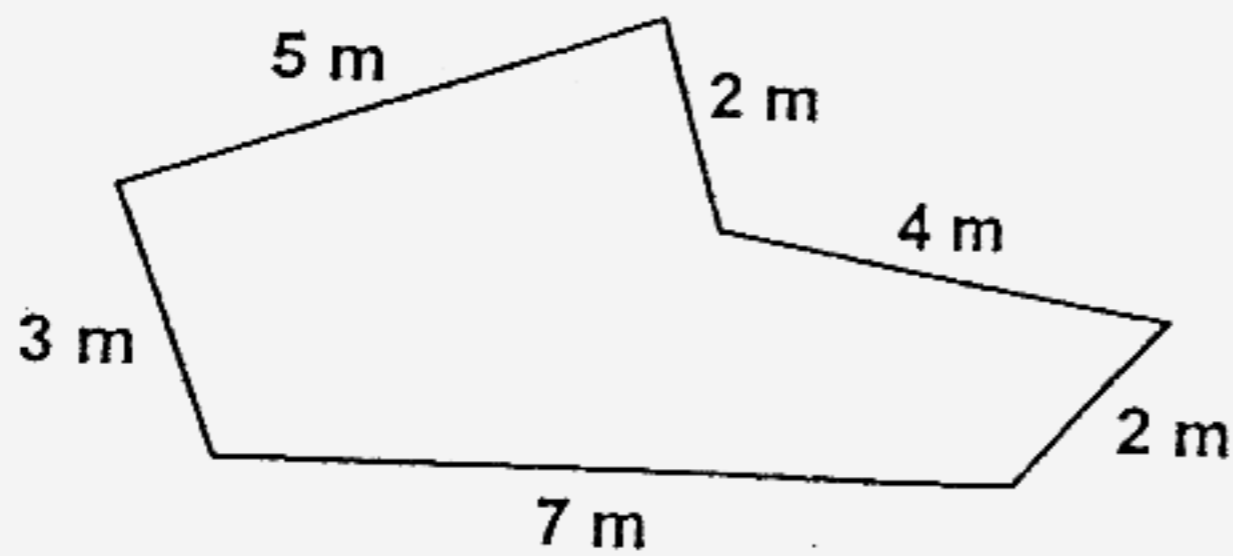
**Grapes
250 g**



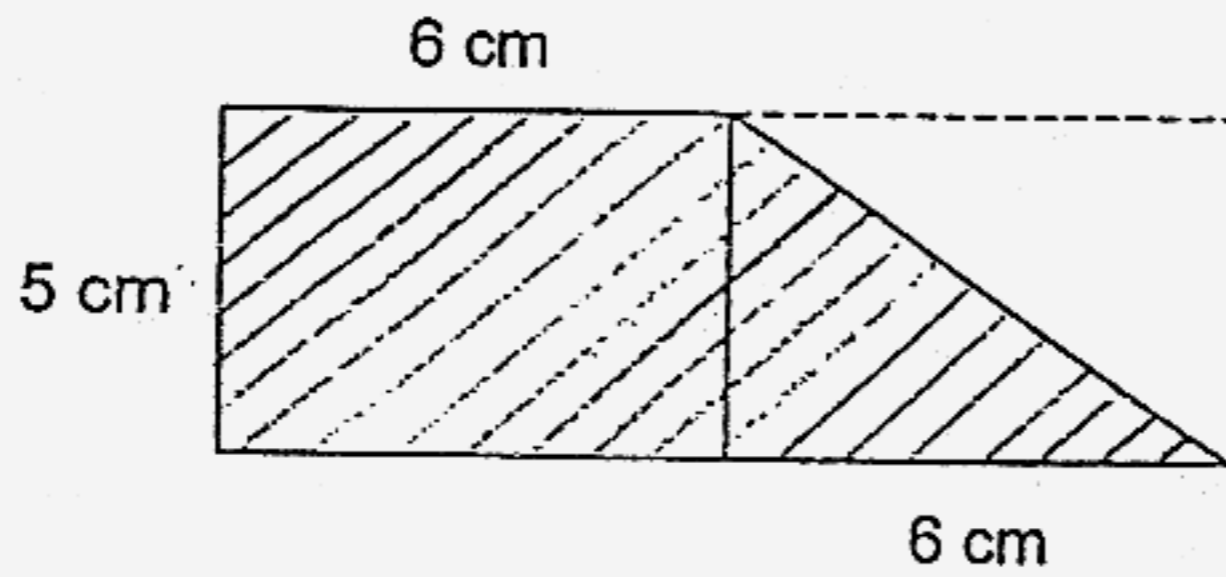
**Pineapples
& pears
860 g**

 g

29. What is the perimeter of the figure below?

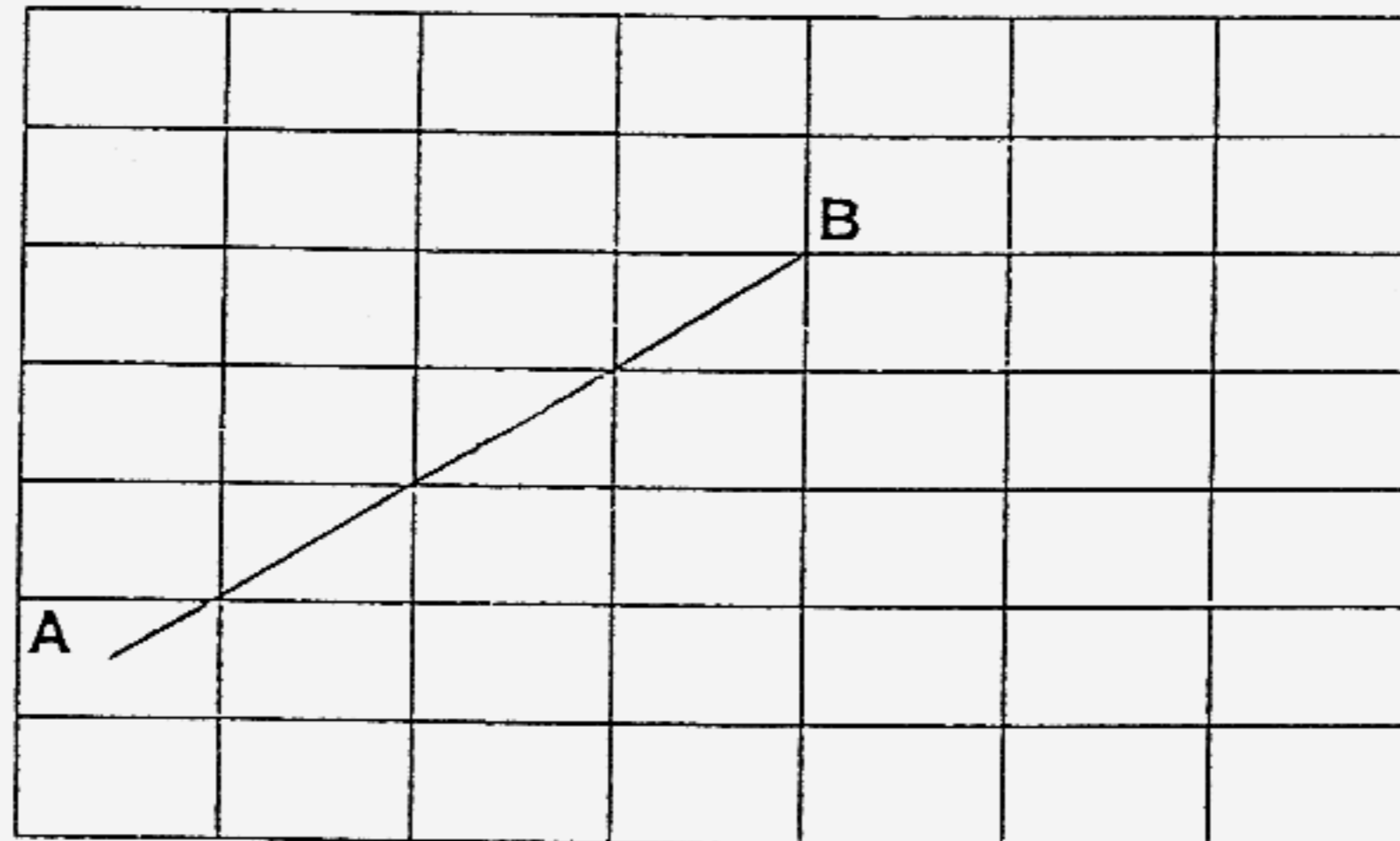
 m

30. The figure below is made up of 2 rectangles. What is the area of the shaded part?



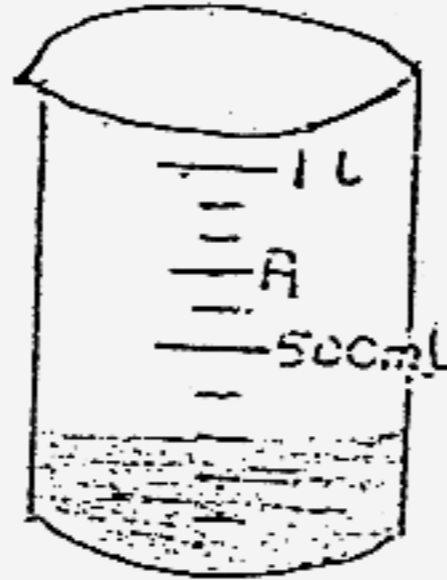
cm²


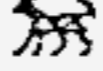
31. In the grid below, draw a line CD parallel to AB.



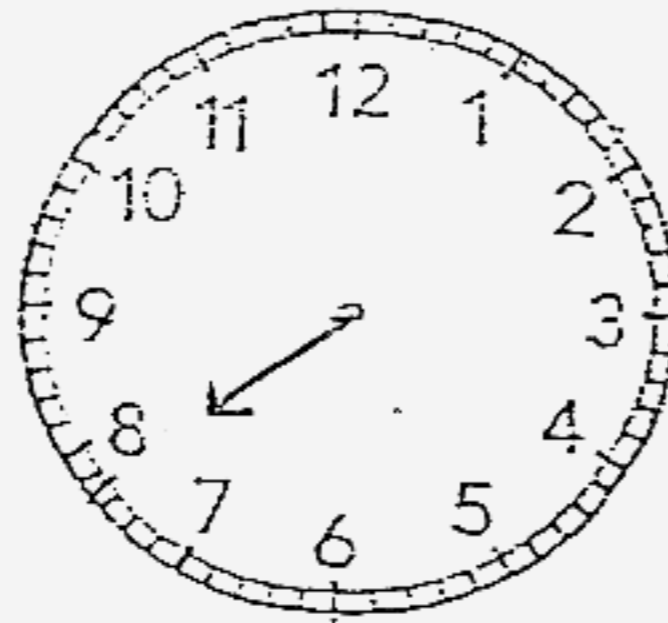
32. May ate $\frac{1}{4}$ of a pie while her brother ate $\frac{3}{8}$ of the pie. What fraction of the pie was eaten?

33. In the figure below, how much water is needed to fill the beaker to the level marked A?



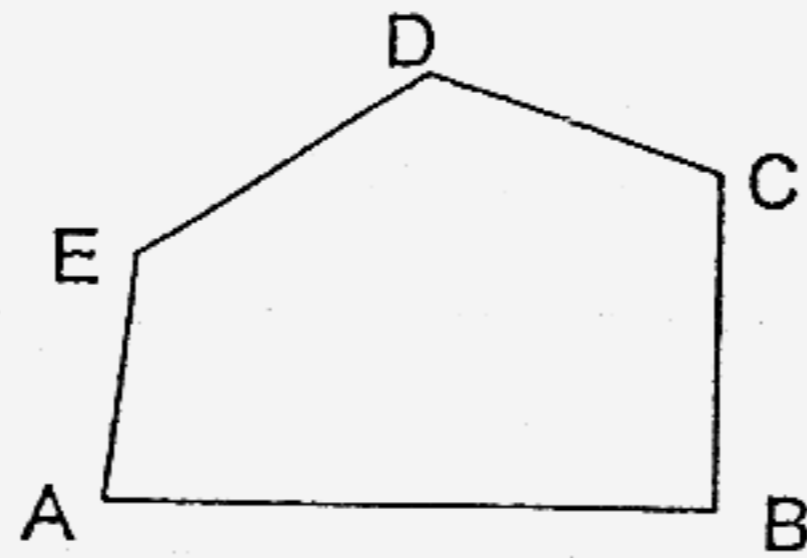
34. If  represents 4 dogs, how many  do you need to draw to represent 28 dogs?

35. In the clock face shown below, draw the minute hand to show 15 minutes to 8.



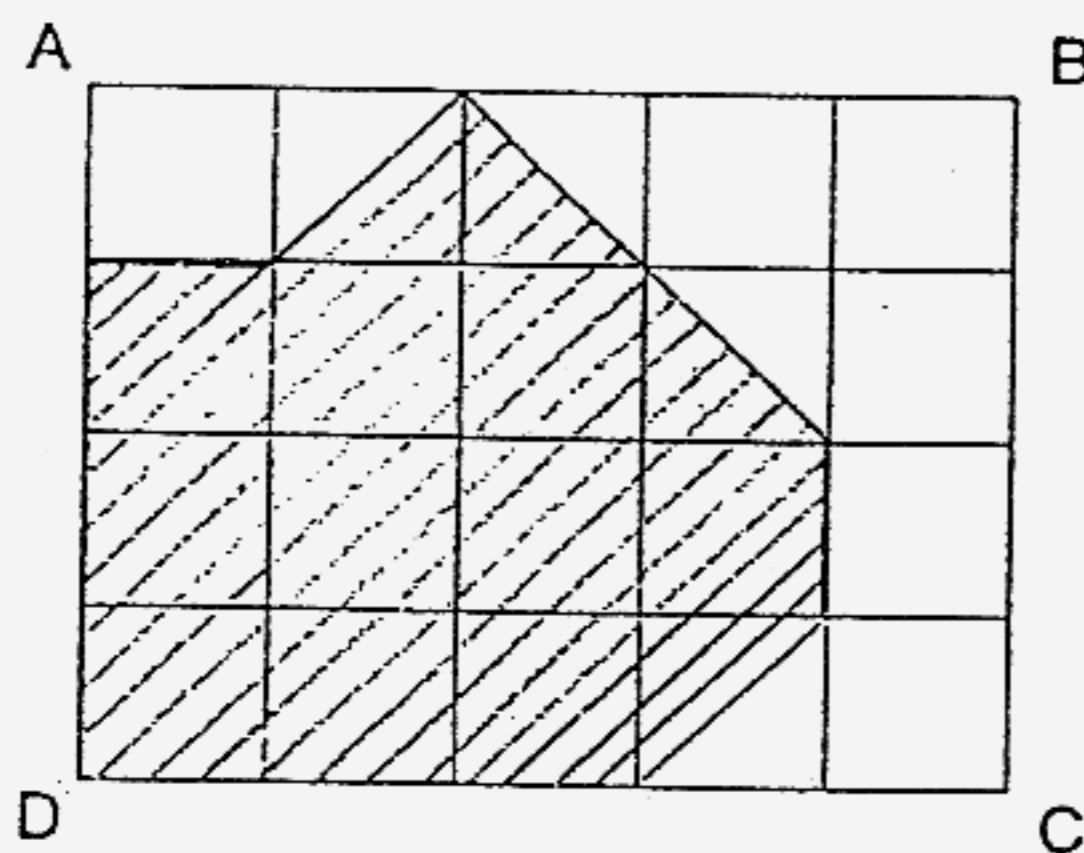
36. The movie 'Ant the Bully' started at 10.55 a.m. and ended at 12.20 p.m. How long was the show?

37. How many angles in the figure are greater than a right angle?



38. Express $\frac{9}{12}$ in its simplest form.

39. What fraction of the rectangle ABCD is shaded?



40. Arrange the following fractions in order, beginning with the greatest.

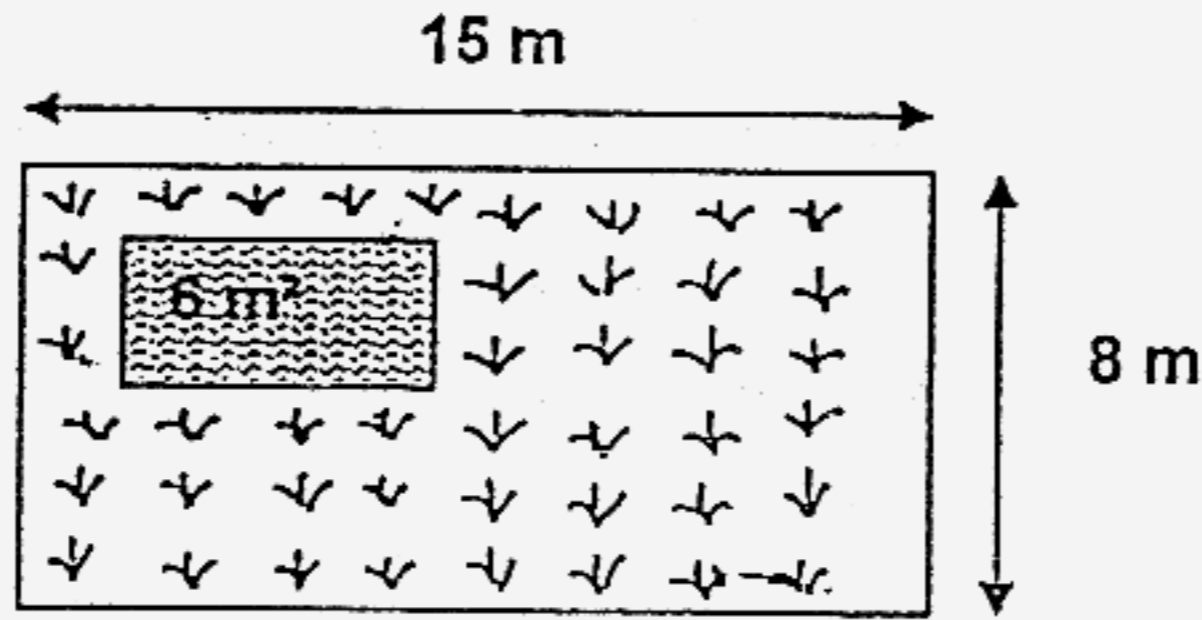
$$\frac{2}{5}, \frac{9}{10}, \frac{4}{8}$$

Section C (5 x 4 marks)

Work out the following sums. Show your working clearly.

41. John has 80 story books.
Nicole, his sister, has twice as many books as he.
His brother has a quarter of what he has.
What is the total number of story books the 3 children have?
42. Ali took 4 h 25 min to paint his room.
His sister took 1 h 10 min less than he to paint her room.
- How long did Ali's sister take to paint her room?
(Give your answer in hours and minutes)
 - If Ali finished painting his room at 3.00 p.m., at what time did he start painting his room?

43. The figure shows a rectangular school field. The shaded part show the area occupied by the sandpit. What is the area of the field covered by grass?



44. Mrs Rosnah had 8 m of cloth. She used 2m 40 cm of it to make a dress. She cut the remaining length into 7 equal pieces to make 7 bags. What was the length of cloth used in making each bag? (Give your answer in centimetres.)

45. 3 stalks of roses cost \$5. Mrs Lim wanted to buy 18 stalks of roses to make a bouquet. How much would Mrs Lim have to pay for her roses?

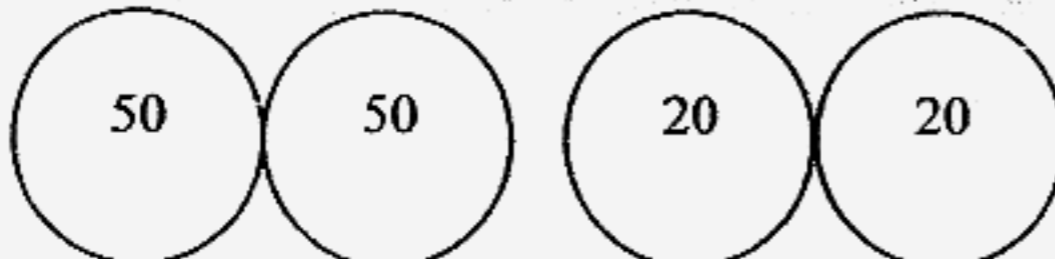
- 1) 3 2) 1 3) 3 4) 1 5) 2
 6) 4 7) 2 8) 4 9) 3 10) 4
 11) 3 12) 1 13) 1 14) 3 15) 2
 16) 1 17) 4 18) 1 19) 4 20) 3

21. $20000 + 368 + 799 = 21167$

22. 3248, 3428, 3482, 3824

23. $290 \div 8 = 36 \text{ boxes } r2$
36 boxes 2 left

24. $5 \text{ packets } \times 250 = 1250 \text{ sticks}$
 $3360 - 1250 = \underline{2110 \text{ sticks}}$

25. 
 $0.50¢ + 0.50¢ + 0.20¢ + 0.20¢$
 $= \$1.40$

26. $\frac{6}{30} \times 5 = 90 \div 3$
 $\frac{6}{30} = 30$

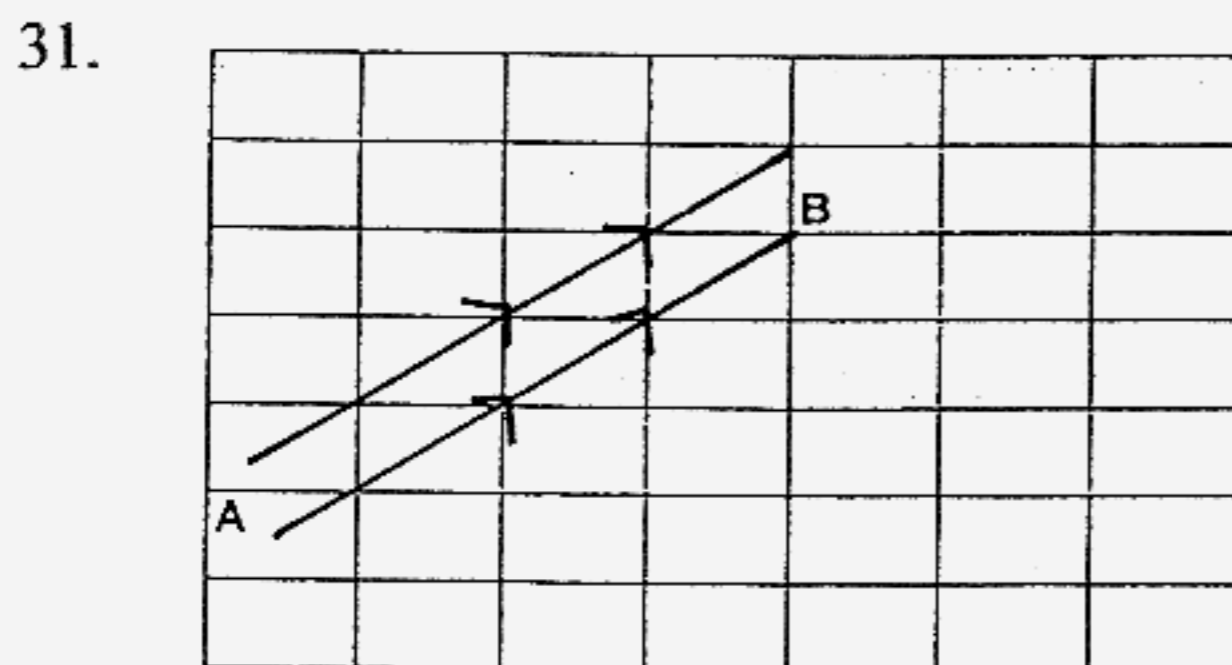
27. $2 \text{ fishes} = 4\text{kg } (4000\text{g})$
 $1 \text{ fish} = 1\text{kg } 280\text{g } (1280\text{g})$
 $(4000 - 1280)\text{g} = 2720\text{g}$
 $= \underline{2\text{kg } 720\text{g}}$

28. $2 \text{ Pineapples} + \text{Grapes} = 985\text{g}$
 $2 \text{ Pineapples} = 985\text{g} - 250\text{g}$
 $= 735\text{g}$

$2 \text{ Pineapples} + 3 \text{ pears} = 860\text{g}$
 $3 \text{ Pears} = 860\text{g} - 735\text{g}$
 $= \underline{125\text{g}}$

29. $7 + 3 + 5 + 2 + 4 + 3 = \underline{23\text{m}}$

30. $\text{Area of rect.} = 6 \times 5 = 30\text{cm}^2$
 $\text{Area of triangle} = \frac{1}{2} \times 5 \times 6 = 15\text{cm}^2$
 $\text{Area of shaded part} = 30 + 15 = \underline{45\text{cm}^2}$

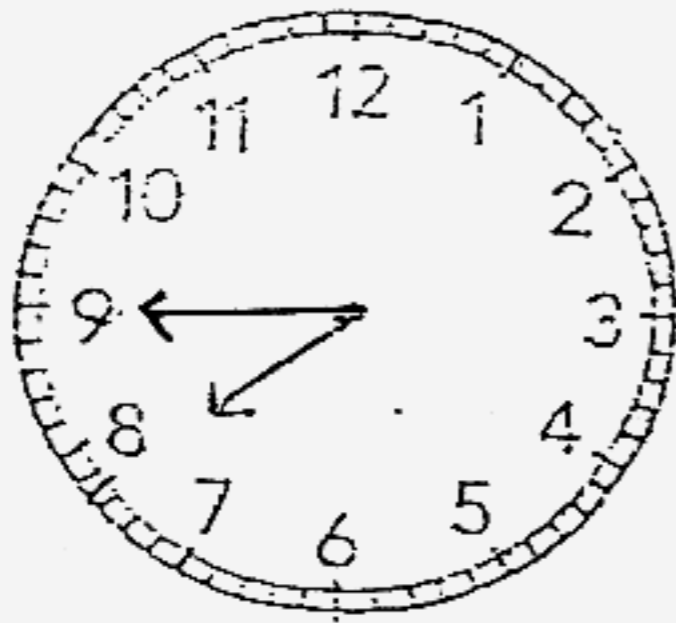


32. $\frac{1}{4} + \frac{3}{8} = \frac{20}{32} = \frac{5}{8}$

$$\begin{aligned}
 33. \quad 500\text{ml} \div 5 &= 100\text{ml} \\
 &= 3 \times 100\text{ml} \\
 &= 300\text{ml} \\
 700\text{ml} - 300\text{ml} &= \underline{400\text{ml}}
 \end{aligned}$$

$$\begin{aligned}
 34. \quad 4 \text{ dogs} &= \cancel{4} \\
 28 \text{ dogs} &= 28 \div 4 = \underline{7\cancel{4}}
 \end{aligned}$$

35.



$$\begin{aligned}
 36. \quad \text{Start} &= 10.55\text{am} \\
 \text{End} &= 12.20 \text{ pm} \\
 1220 - 1055 &= 125 \\
 &= \underline{1\text{hour } 25 \text{ mins}}
 \end{aligned}$$

37. 3 angles

$$38. \quad \frac{9}{12} = \frac{3}{4}$$

$$39. \quad \frac{12}{20}$$

$$40. \quad \frac{9}{10}, \frac{4}{8}, \frac{2}{5}$$

$$\begin{aligned}
 41. \quad \text{John} &= 80 \text{ story books} \\
 \text{Nicole} &= 80 \times 2 = 160 \text{ story books} \\
 \text{Brothre} &= 80 \div 4 = 20 \text{ story books} \\
 (80 + 160 + 20) &= 260 \text{ story books}
 \end{aligned}$$

The 3 children have 260 storybooks

$$\begin{aligned}
 42a. \quad \text{Ali} &= 4\text{h } 25\text{min} \\
 \text{Sister} &= 4\text{h } 25\text{min} - 1\text{h } 10\text{min} \\
 &= 3\text{h } 15\text{min}
 \end{aligned}$$

His sister took 3h 15mins to paint her room.

$$\begin{aligned}
 b. \quad 3\text{pm} &= 1500\text{hours} \\
 &= 1500\text{hours} - 4\text{h } 25 \text{ min} \\
 &= 1035\text{hours} \\
 &= 10.35\text{am}
 \end{aligned}$$

Ali started at 10.35am

43. Area of rectangle = 15×8
= 120m^2
= $120\text{m}^2 - 6\text{m}^2$
= 114m^2

The area of the field covered by grass is 114m^2

44. $8\text{m} = 800\text{cm}$
 $2\text{m} = 240\text{cm}$
 $(800 - 240)\text{cm} = 560\text{cm}$
 $560\text{cm} \div 7 = 80\text{cm}$

She used 80cm of cloth in making each bag.

45. 3 stalks = \$5.00
 $18 \text{ stalks} = \frac{5}{3} \times 18 = \30

Mrs Lim paid \$30.00 for the roses