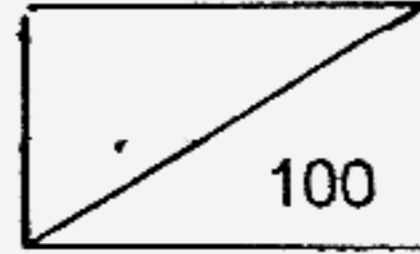


NAN HUA PRIMARY SCHOOL
END-OF-YEAR EXAMINATION – 2006
MATHEMATICS
PRIMARY FOUR

Name: _____ ()

Marks:



Class: Primary 4

Date: 30 October 2006

Duration: 1 h 45 min

Section A (20 × 2 marks)

Questions 1 to 20 carry 2 marks each.

Of the 4 options given, only one is correct.

Choose the correct answer (1, 2, 3 or 4) and write its number in the brackets provided.

1. In 15 076, the 5 stands for _____.

- (1) 5 ones
- (2) 5 tens
- (3) 5 hundreds
- (4) 5 thousands

()

2. How many tens are there in 19 820 ?

- (1) 20
- (2) 2
- (3) 198
- (4) 1 982

()

3. Ms Chew bought a car for \$57 839. What is this amount when rounded off to the nearest \$100?

- (1) \$ 57 000
- (2) \$ 57 800
- (3) \$ 57 900
- (4) \$ 60 000

()

4. Express $6\frac{75}{1000}$ as a decimal.

- (1) 0.675
- (2) 6.075
- (3) 6.750
- (4) 60.075

()

5. $0.93 = 0.9 +$

What is the missing number in the box?

- (1) 3
- (2) 0.3
- (3) 0.03
- (4) 0.003

()

6. If all the factors of an unknown number are 1, 2, 4, 8 and (16) what is this unknown number?

- (1) 8
- (2) 16
- (3) 24
- (4) 32

()

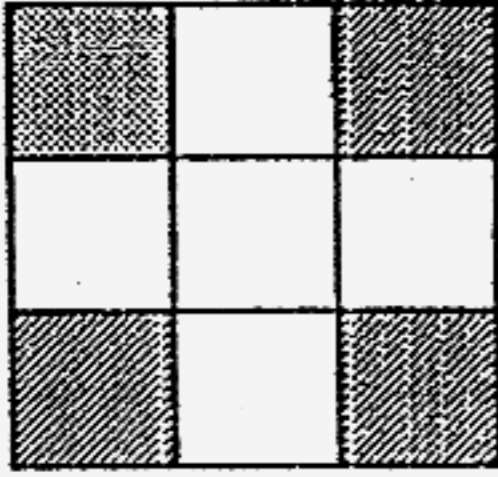
7. Which of the following is an equivalent fraction of $\frac{1}{4}$?

- (1) $\frac{2}{6} = \frac{1}{3}$
- (2) $\frac{3}{9} = \frac{1}{3}$
- (3) $\frac{4}{10} = \frac{2}{5}$
- (4) $\frac{4}{16} = \frac{1}{4}$

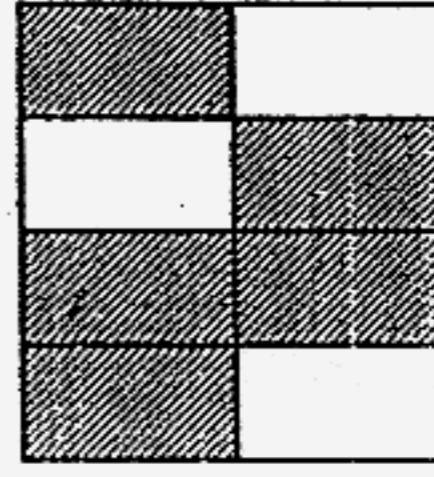
()

8. Which of the following is more than $\frac{1}{2}$ shaded?

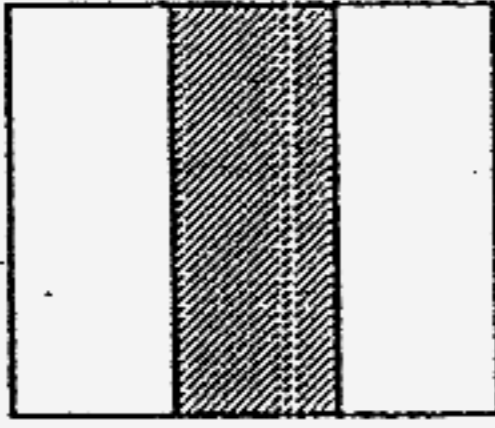
(1)



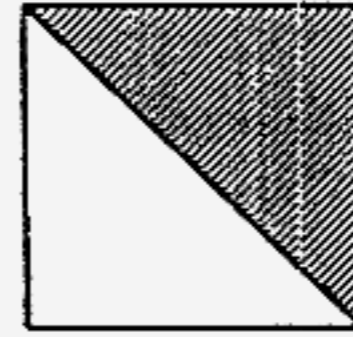
(2)



(3)



(4)



()

9. In $8.75 = 8 + \frac{3}{\square}$, the missing denominator is _____.

(1) 8

(2) 7

(3) 5

(4) 4

()

10. A shopkeeper had 16.4 kg of sugar. He packed it into 8 bags equally and sold 6 such bags. How much sugar did he sell?

(1) 2.05 kg

(2) 4.10 kg

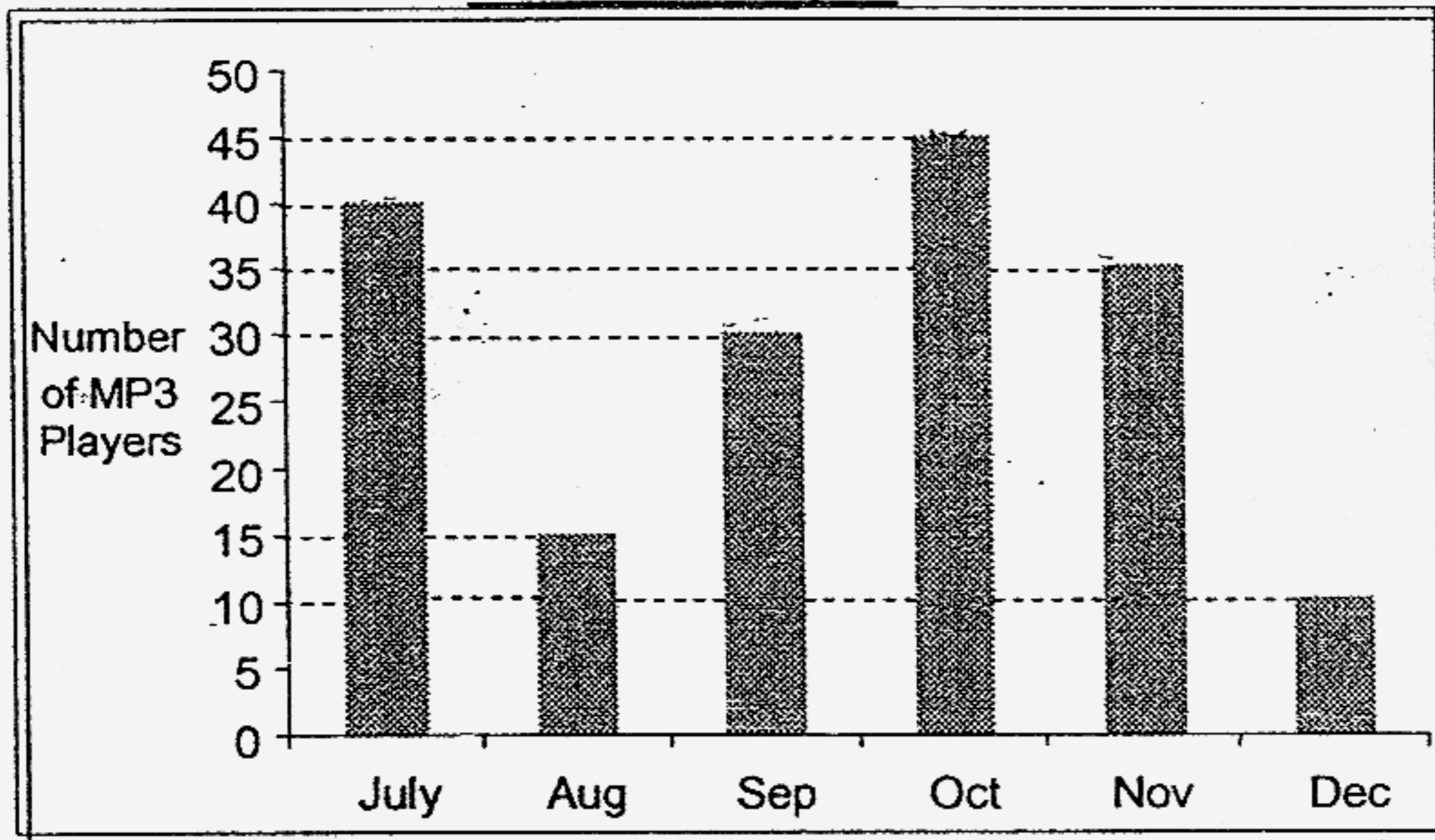
(3) 12.30 kg

(4) 14.35 kg

()

The graph below shows the number of MP3 players sold by a company during the second half of a certain year. Study it and use it to answer questions 11 and 12.

Sale of MP3 Players



11. How many more MP3 players were sold in October than in December?

- (1) 10
- (2) 25
- (3) 35
- (4) 45

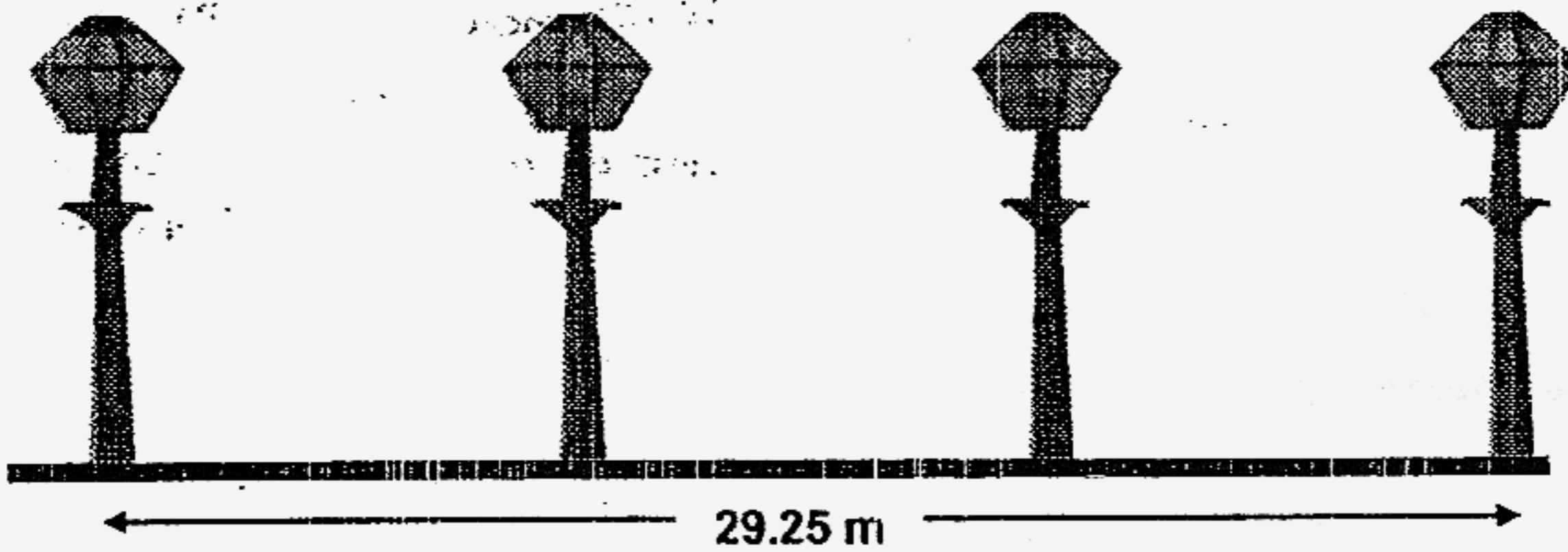
()

12. Round off the total number of MP3 players sold from July to December to the nearest ten.

- (1) 160
- (2) 170
- (3) 180
- (4) 190

()

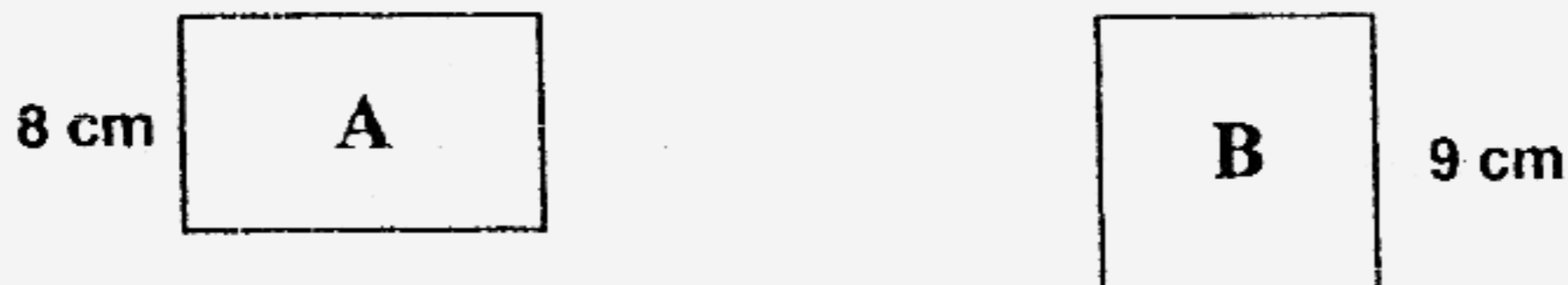
13. Some lampposts were placed at equal distances along a straight road. The distance between the first lamppost and the fourth lamppost is 29.25 m. What was the distance between the fourth lamppost and the ninth lamppost?



- (1) 39.0 m
 (2) 48.75 m
 (3) 58.50 m
 (4) 68.25 m

()

14. Charlie formed rectangle A with a piece of wire. He then formed square B with the same piece of wire. Find the length of rectangle A.
 (The figure is not drawn to scale.)



- (1) 10 cm
 (2) 12 cm
 (3) 20 cm
 (4) 36 cm

()

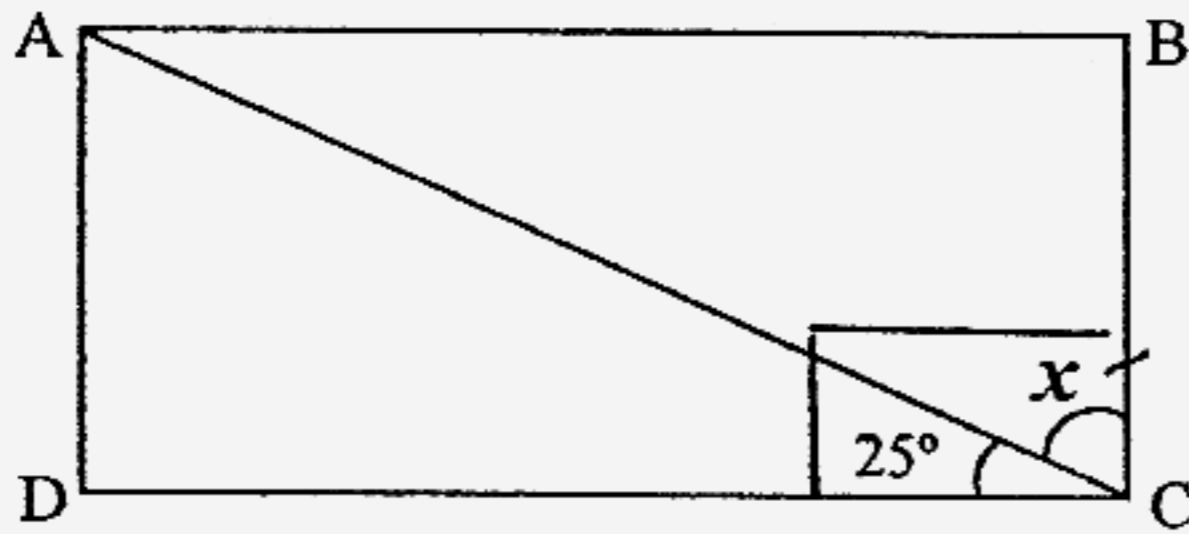
15. Mr. Pang's monthly income is \$2 500. If he saves \$450 for his daughter's university education every month, how much can he save in 5 years?

- (1) \$2 250
- (2) \$5 400
- (3) \$16 200
- (4) \$27 000

()

16. ABCD is a rectangle. Find angle x .

(The figure below is not drawn to scale.)



- (1) 45°
- (2) 55°
- (3) 65°
- (4) 90°

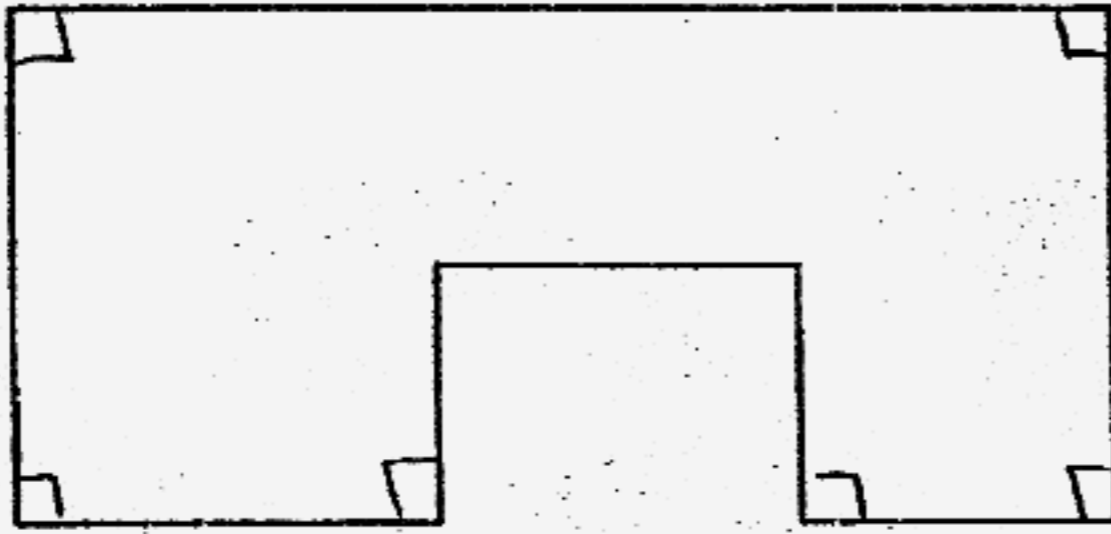
()

17. $\frac{5}{6}$ of a number is 30. What is $\frac{1}{3}$ of the number?

- (1) 36
- (2) 12
- (3) 10
- (4) 6

()

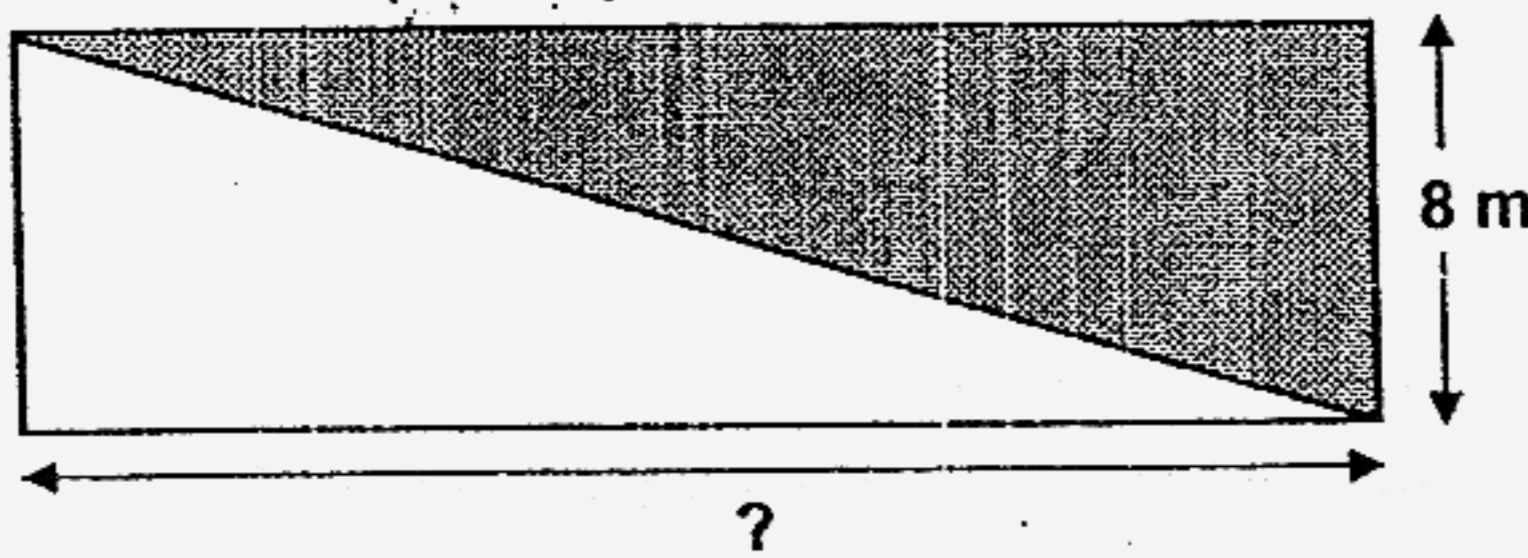
18. How many right angles are there inside the following figure ?



- (1) 12
- (2) 10
- (3) 8
- (4) 6

()

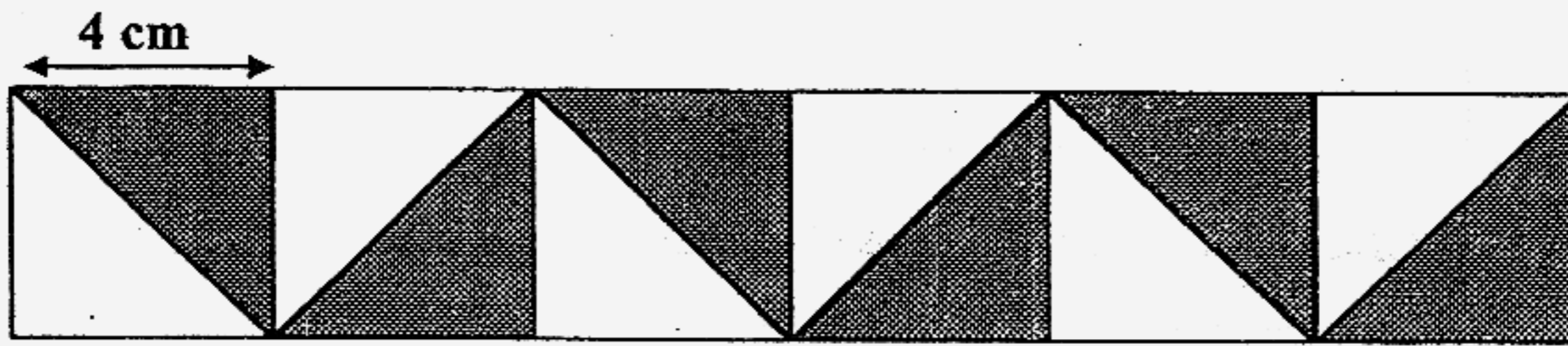
19. The area of the **shaded part** in the rectangle is 48 m^2 .
If the breadth of the rectangle is 8 m, its length is _____.



- (1) 12 m
- (2) 8 m
- (3) 6 m
- (4) 4 m

()

20.



The figure above is made up of 6 equal squares of side 4 cm.

Find the area of the shaded part of the figure.

- (1) 16 cm^2
- (2) 24 cm^2
- (3) 48 cm^2
- (4) 96 cm^2

() ✓

Section B: Open-ended Questions (20 × 2 marks)

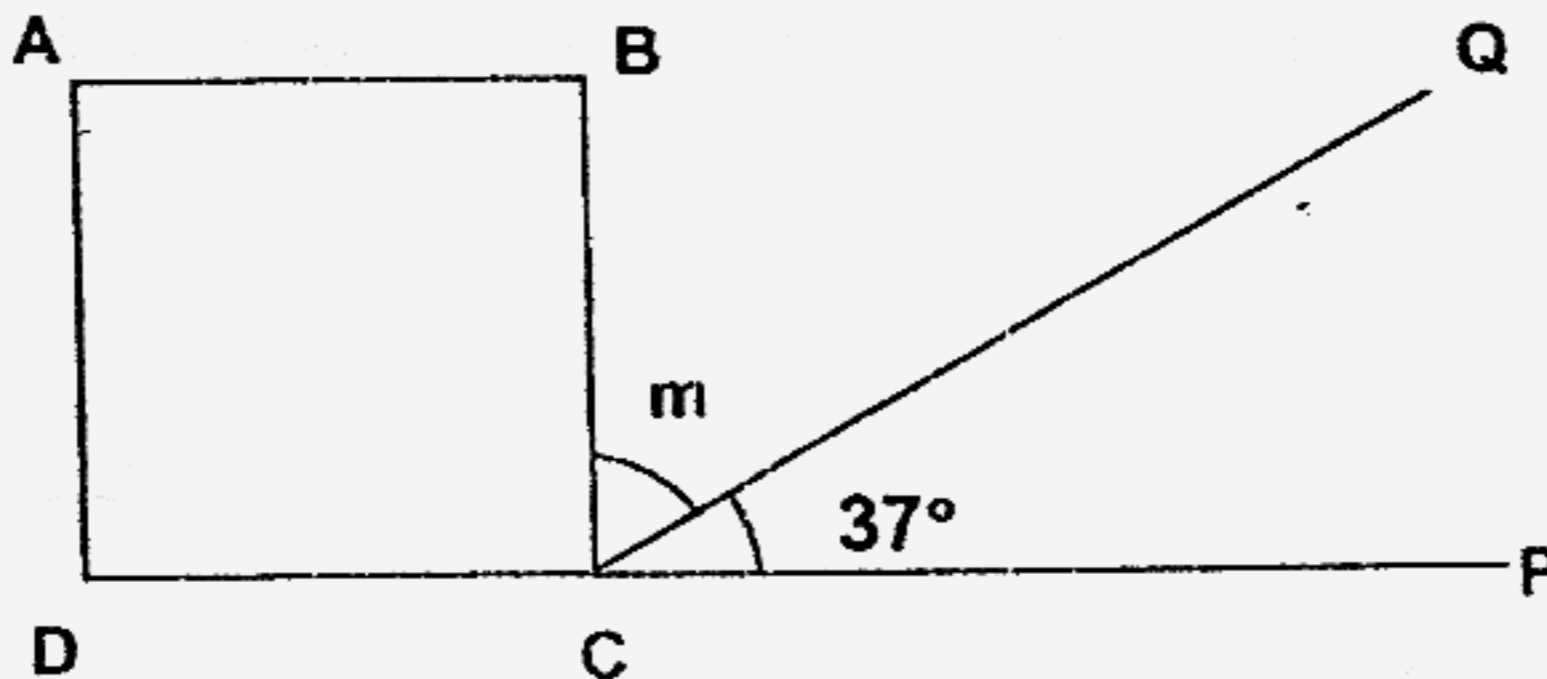
Questions 21 to 40 carry 2 marks each.

Write out the correct answers for the following questions in the boxes provided.
Show your workings clearly and give your answers in the units provided.

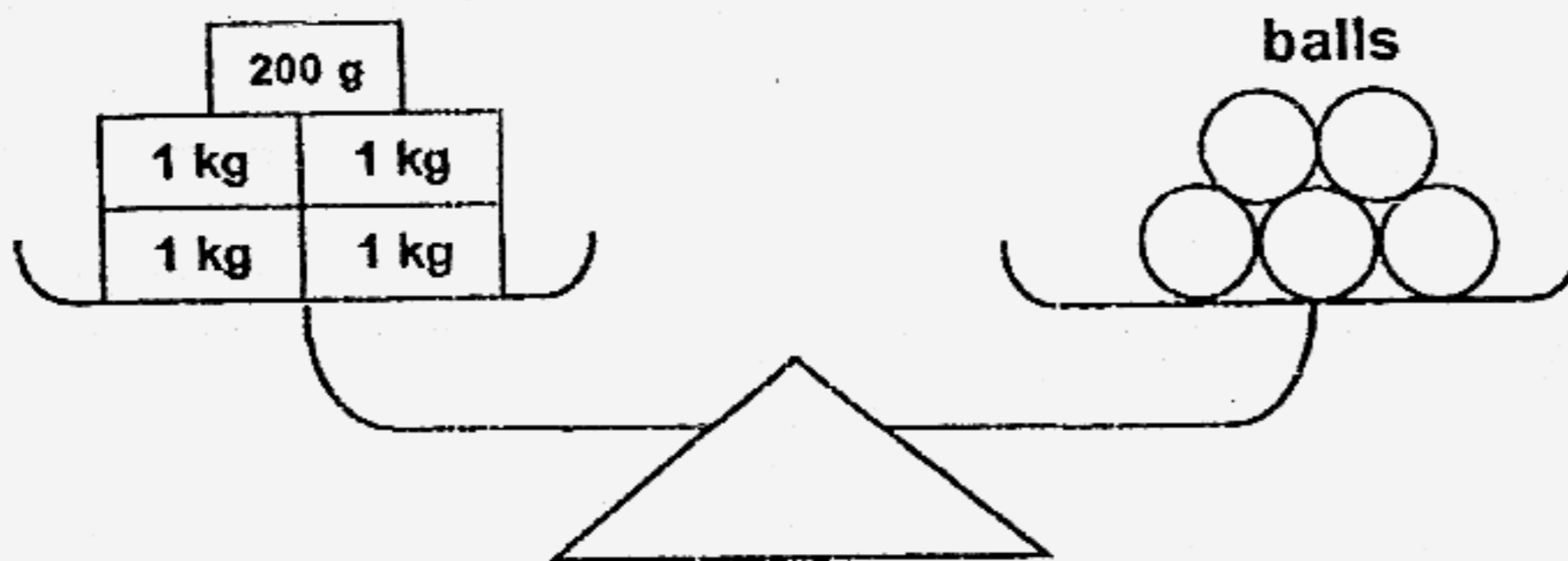
21. In $9 \times \boxed{} = 4\,240 - 640$

What is the missing number in the box?

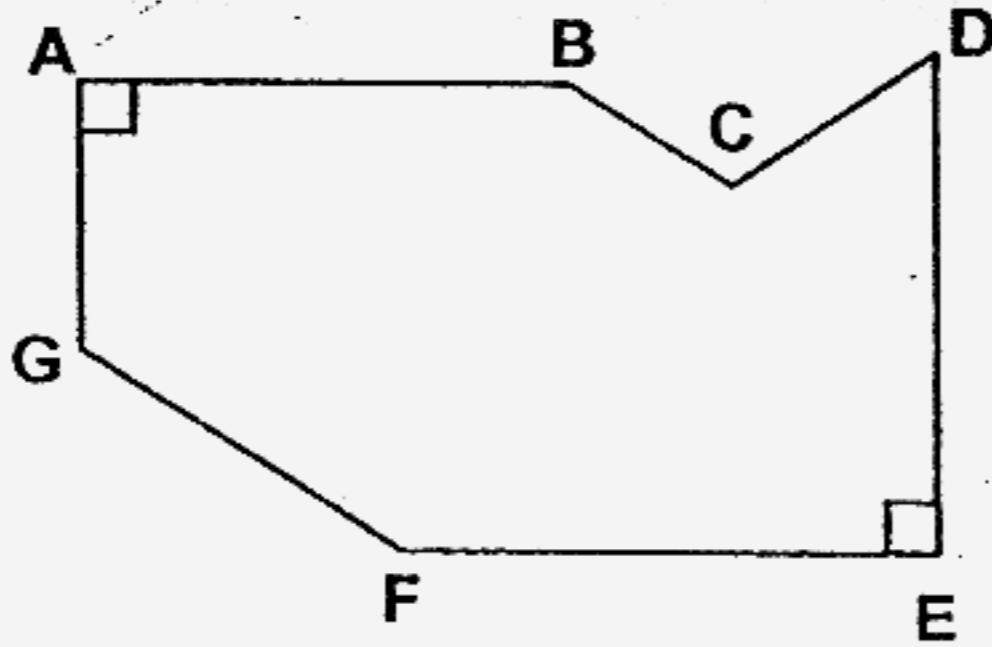
22. ABCD is a square. DCP is a straight line. Find $\angle m$.



23. Five similar balls have a total mass as shown below. What is the mass of each ball?

 g

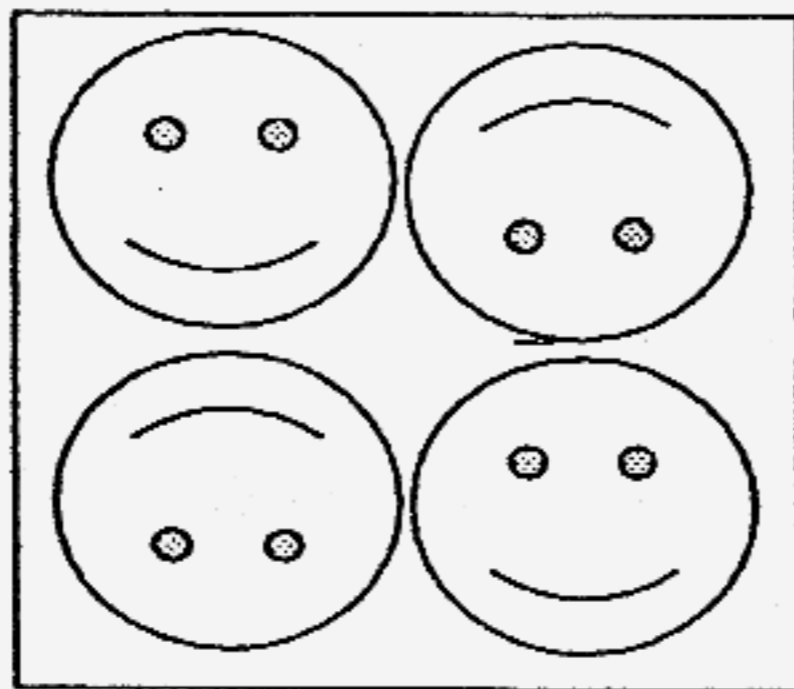
24. In the figure below, name the line which is parallel to FE?



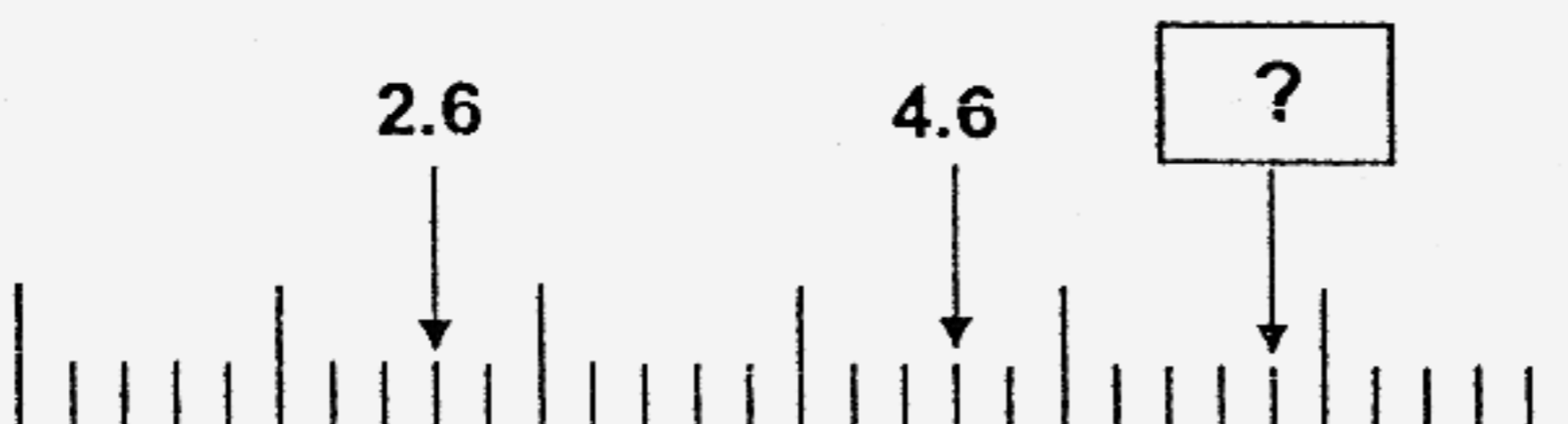
25. For every 10 T-shirts that Minah purchases, she receives a discount of \$3.
If 1 such T-shirt costs \$4, how much does Minah have to pay for 68 such T-shirts?

\$

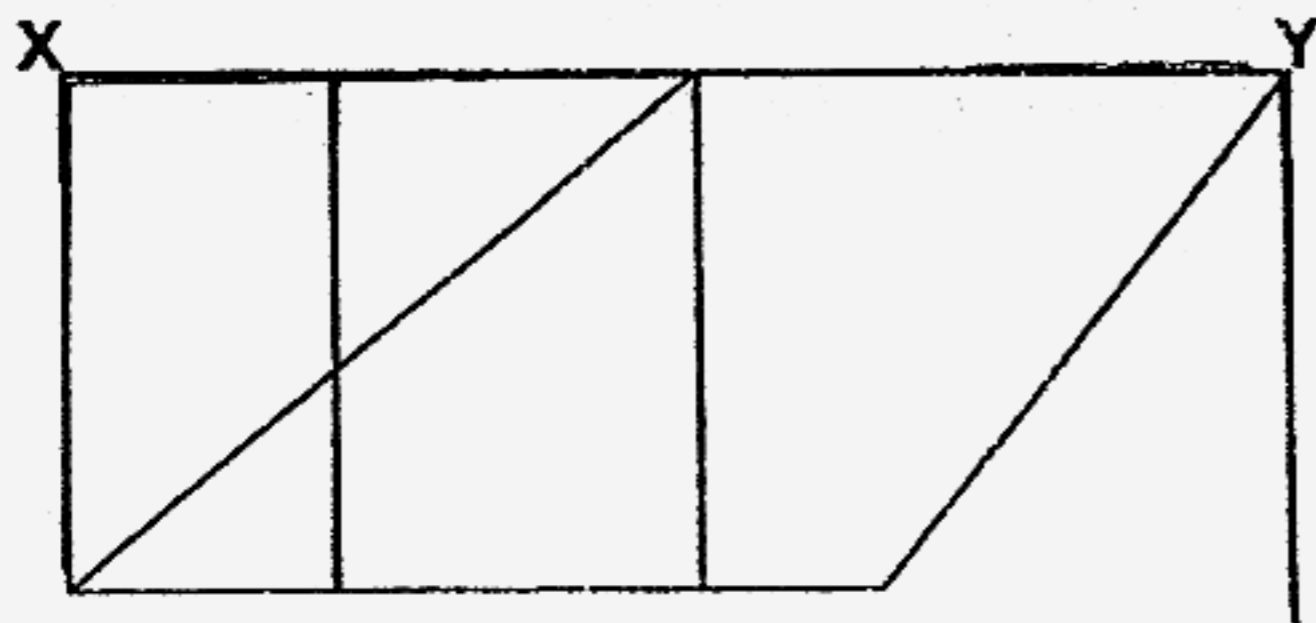
26. Draw the line of symmetry of the figure.
(There is only one line of symmetry)



27. Fill in the missing answer.



28. How many perpendicular lines are there to the line XY?



lines

29. Helen and six classmates shared the cost of a present equally. The present cost \$86.10. How much money did Helen have at first if she had \$2.85 left after paying her share?

\$

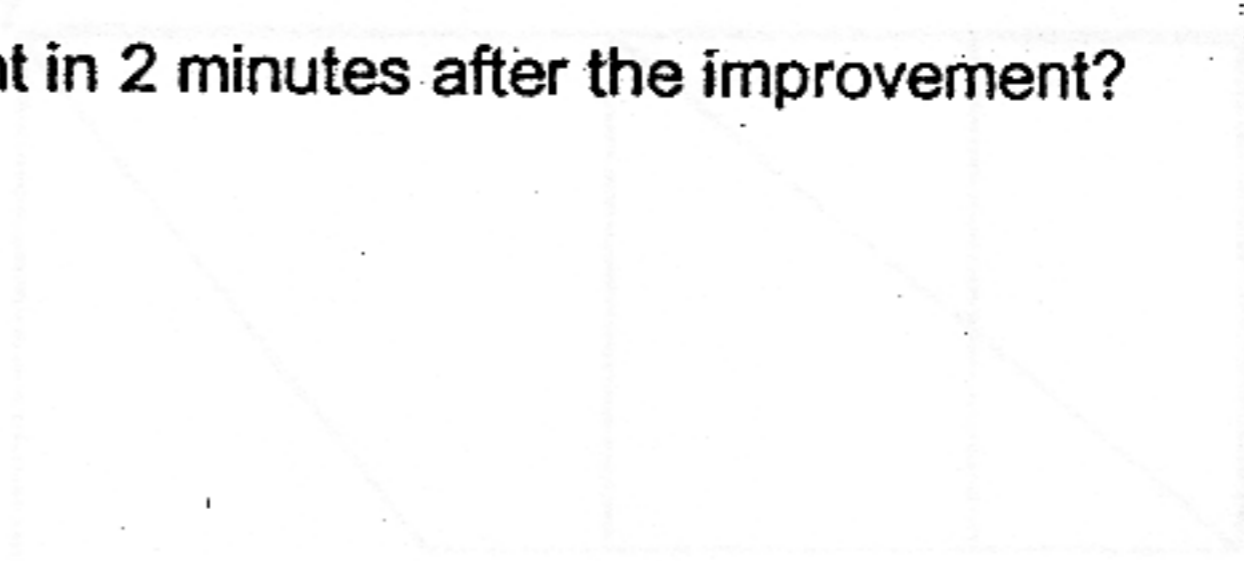
30. There are 60 workers at a construction site. $\frac{1}{4}$ of them are Singaporeans. 35 of them are Thais. The rest are Malaysians. How many Malaysian workers are there?

Malaysian workers

31. Different coloured plates are used for a party. $\frac{1}{6}$ of them are yellow, $\frac{1}{4}$ of them are pink and the remaining 42 are purple. How many yellow and pink plates are there altogether?

plates

32. A copier machine can print 1 090 sheets of paper in one minute.
After being improved, it can print 375 more sheets per minute.
How many sheets of paper can it print in 2 minutes after the improvement?



sheets of paper

33. There were 6 700 chickens in a farm. 400 chickens were slaughtered each day for 1 week. How many chickens were left ?

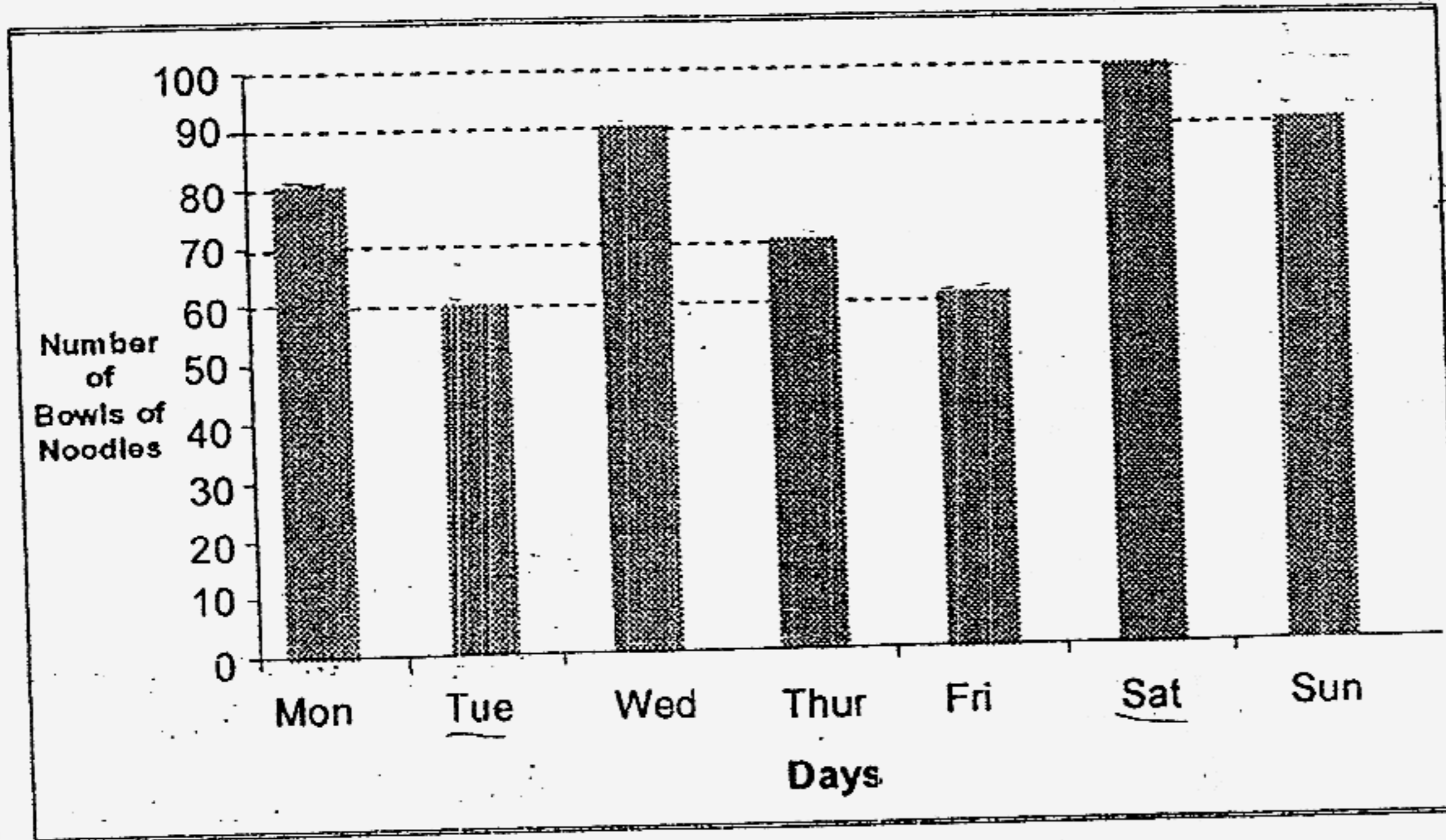
chickens

34. Jervin went shopping with \$250. He bought a pair of trousers at the price of \$88.
If he bought 6 similar shirts with the rest of the money, what was the cost of each shirt ?

\$

The graph below shows the number of bowls of noodles which were sold for the whole week. Study it and use it to answer questions 35 and 36.

Sale of Bowl of Noodles



35. How many bowls of noodles were sold on **Tuesday** and **Saturday**?

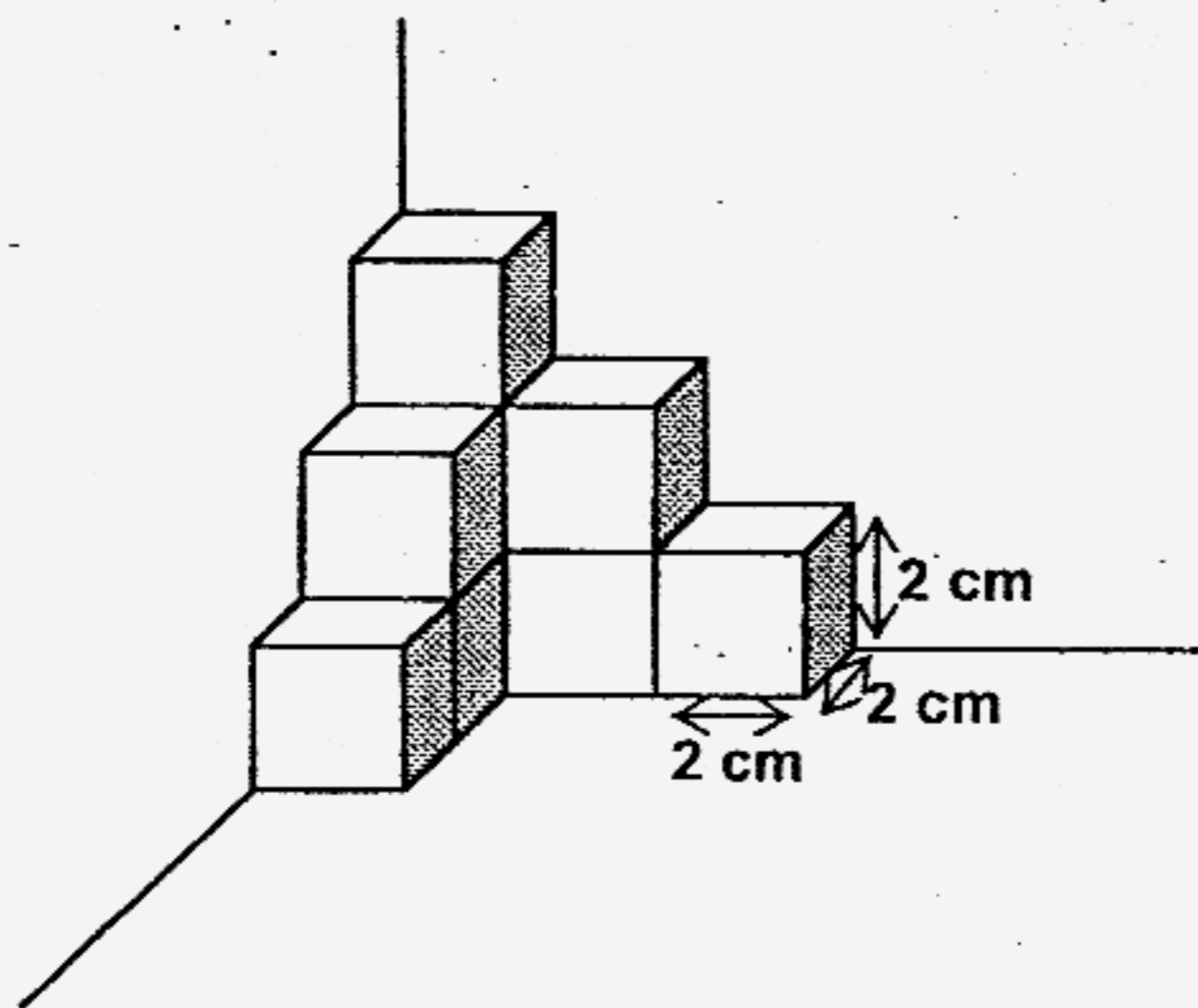
bowls of noodles

36. If a bowl of noodles cost \$4 each, how much money was collected from Monday to Friday?

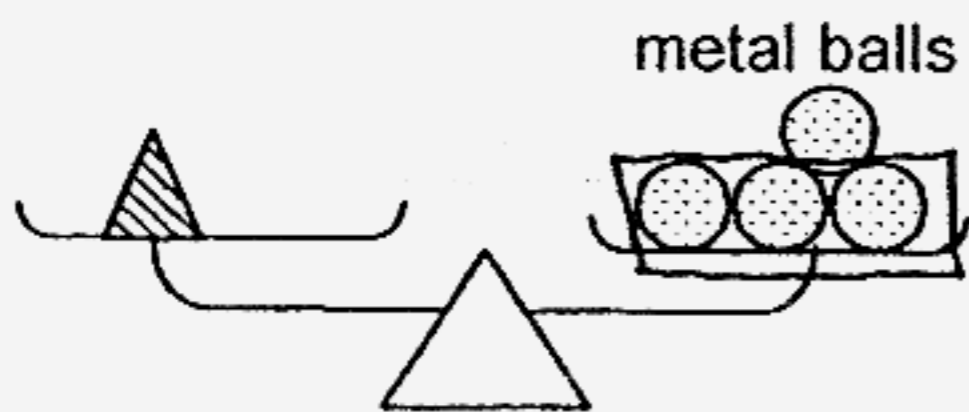
\$

37. The sum of two numbers is 50. If one number is smaller than the other by 12, find the **smaller** number.

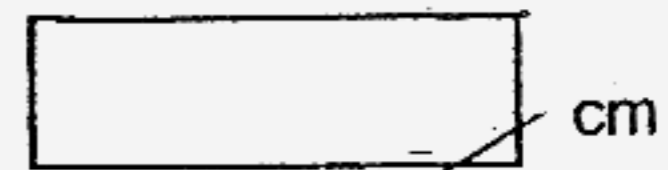
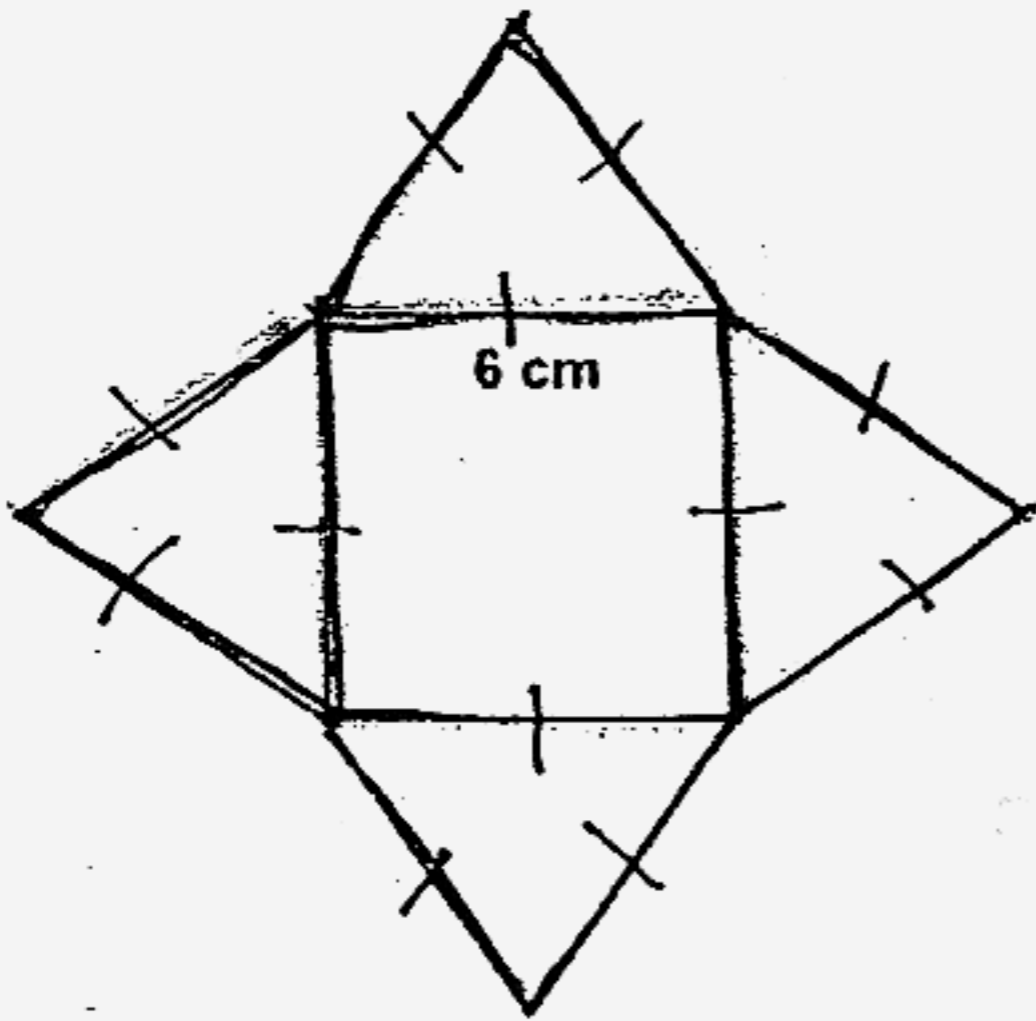
38. The following solid is made up of 2-cm cubes. How many 1-cm cubes are needed to build a solid with the **same volume**?


 cubes

39. Look at the following diagram. Calculate the mass of one metal ball. (Give your answer in **grams**.)


 g

40. The figure is made up of a square of side 6 cm and 4 similar triangles. All the 3 sides of each triangle are equal in length. Calculate the minimum length of wire needed to construct the figure as shown.



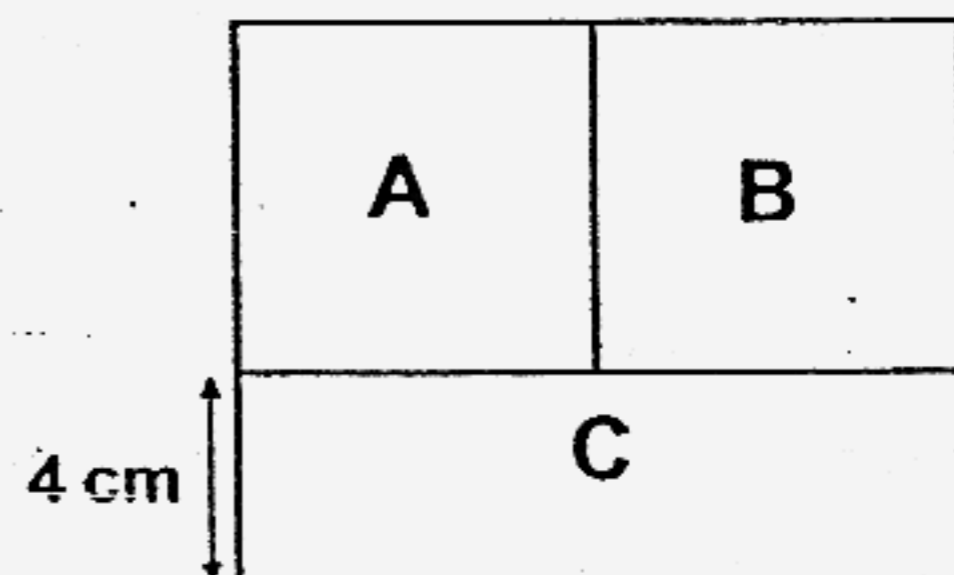
Section C: Problem Sums (5 × 4 = 20 marks)

Do the following sums carefully. All statements and workings must be clearly shown.
All units must be clearly stated.

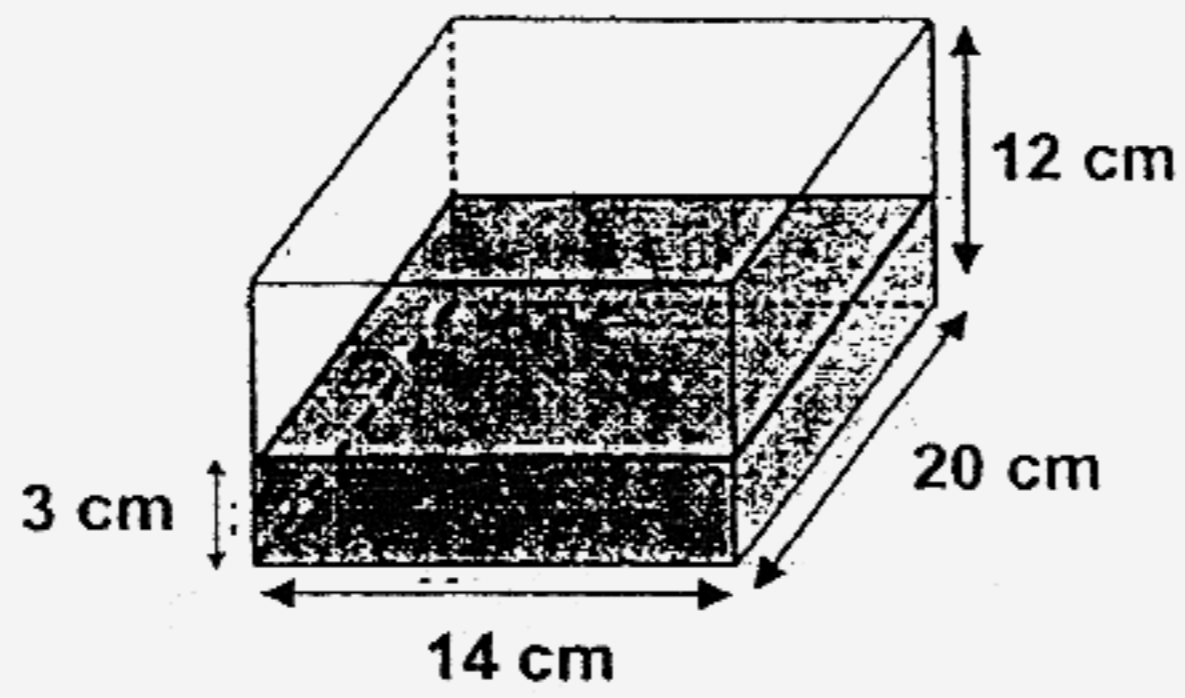
41. Bookstore A sold 16 sets of encyclopedia at \$570 each and Bookstore B sold 18 sets at \$630 each. Find the total sales of both bookstores.

42. Mateen purchased 8 boxes of decorative pebbles. The pebbles in each box have a mass of 13.6 kg. After unpacking all the pebbles, he repacked them equally into 5 bags. Find the mass of the pebbles that he packed into each bag.

43. The figure below is made of rectangle C and two equal squares, A and B. If the perimeter of each square is 28 cm, find the area of the whole figure.

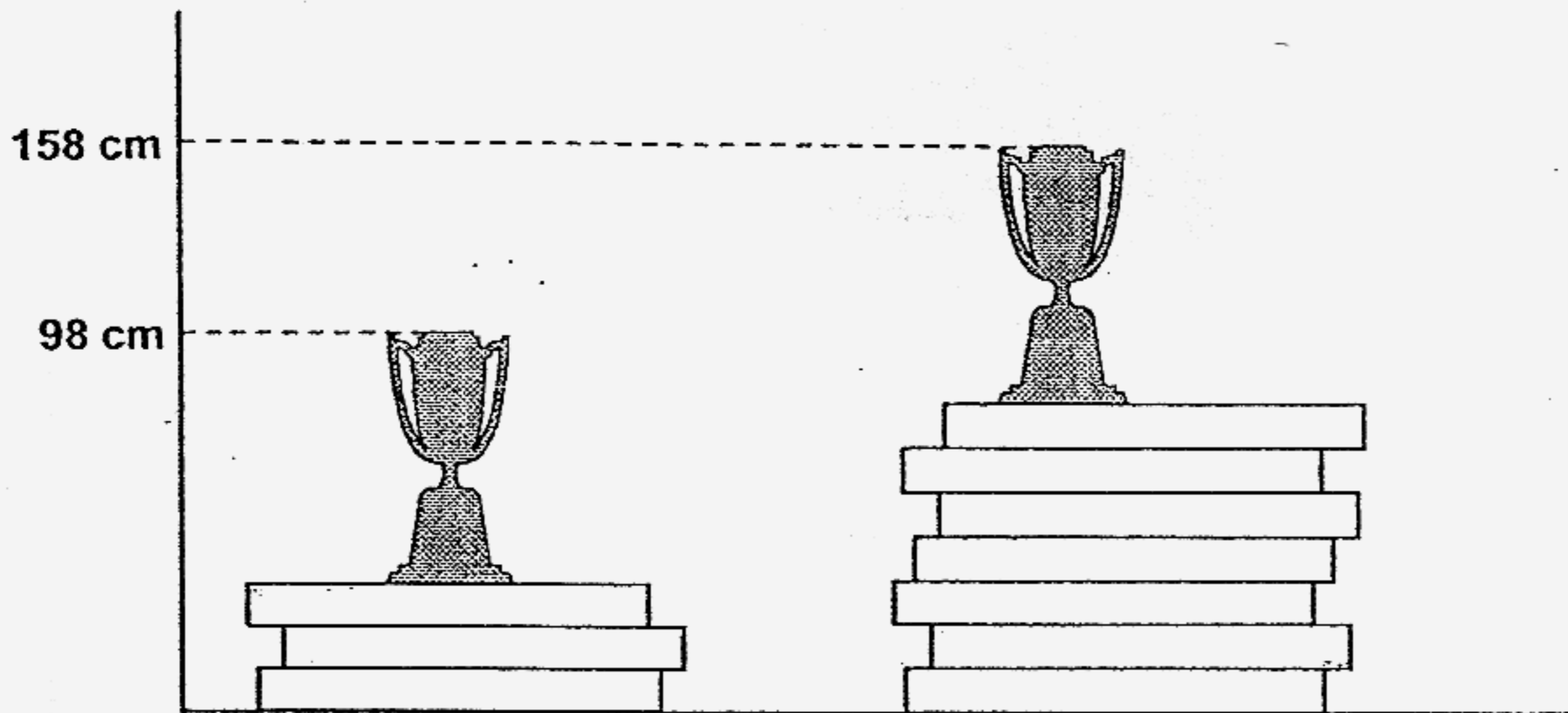


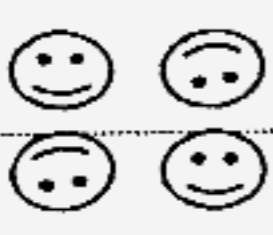
44. A rectangular container 14 cm long, 20 cm wide and 12 cm high is filled with water to a depth of 3 cm. How much more cubic centimeters of water is required to fill the container to the brim?



45. The figure shows a trophy on 2 different stacks of wood. All the blocks of wood are of equal heights.

- a) What is the height of a block of wood?
- b) What is the height of the trophy?



1. 4 37) 19
2. 4 38) 72
3. 2 39) 340g
4. 2 40) Perimeter for $1\Delta=6\text{cm} \times 3=18\text{ cm}$
 Length of wire for $4\Delta=18\text{cm} \times 4=72\text{cm}$
5. 3
6. 2
7. 4 41) Total sale of book store A= $\$570 \times 16=\9120
 Total sale of book store B= $\$630 \times 18=\11340
 Total sale both book store= $\$9120+\11340
 = $\$20460$
 The total sale of both book store is $\$20460$.
8. 2
9. 4
10. 3
11. 3
12. 3
13. 2 42) Total mass of pebbles= $13.6\text{kg} \times 8=108.8\text{kg}$
 Mass of each bag= $108.8\text{kg} \div 5=21.76\text{kg}$
 He packed 21.7kg of pebbles in each bag.
14. 1
15. 4
16. 3
17. 2 43) Length of side of square A= $28\text{cm} \div 4=7\text{cm}$
 Length of whole figure= $7\text{cm}+7\text{cm}=14\text{cm}$
 Breath of whole figure= $7\text{cm}+4\text{cm}=11\text{cm}$
 Area of whole figure= $14\text{cm} \times 11\text{cm}=154\text{cm}^2$
 The area of the whole figure is 154cm^2 .
18. 4
19. 1
20. 3
21. 400
22. 53
23. 840g 44) Volume of the container= $20\text{cm} \times 14\text{cm} \times 12\text{cm}$
 = 3360cm^3
 Volume of water = $20\text{cm} \times 14\text{cm} \times 3\text{cm}=840\text{cm}^3$
 amount of water to be needed= 3360cm^3-
 $840\text{cm}^3=2520\text{cm}^3$
 The amount of water required is 2520cm^3 to
 Fill the container to its brim.
24. AB
25. \$254
26. 
27. 58
28. 4 lines
29. \$15.15
30. 10
31. 30
32. 2930
33. 3900
34. \$27
35. 160
36. \$1440
- 45) Difference in number of black of wood= $7-3=4$
 Difference in height= $158\text{cm}-98\text{cm}=60\text{cm}$
 4 block of wood is 60cm tall
 Height of 1 block of wood = $60\text{cm} \div 4=15\text{cm}$
 a) The height of 1 block of wood is 15cm
 The Height of 3 block of wood= $15\text{cm} \times 3=45\text{cm}$
 The Height of trophy= $98\text{cm}-45\text{cm}=53\text{cm}$
 The Height of the trophy is 53cm