CHIJ ST NICHOLAS GIRLS' SCHOOL

Primary 4

Second Semestral Examination 2006

Mathematics

13th October 2006

Section A :	/ 40
Section B & C :	/ 60
Total Marks:	/100

Duration of Paper : 1 h 45 min

Do not open the booklet until you are told to do so.
Follow all instructions carefully.

Section A (20 X 2 marks = 40 marks)

For each question, choose the correct answer and shade its number (1, 2, 3 or 4) in the Optical Answer Sheet (OAS) provided.

1) Seventy-three thousand and thirty-seven as a numeral is _____.

   (1) 77 330
   (3) 73 330

   (2) 73 370
   (4) 73 037

2) In 98 043, the digit 8 is in the _____ place.

   (1) tenths
   (3) tens

   (2) thousandths
   (4) thousands

3) What is the product of 9005 and 8?

   (1) 7 240
   (3) 72 040

   (2) 72 000
   (4) 72 400

4) What is the quotient when 2805 is divided by 7?

   (1) 40
   (3) 401

   (2) 400
   (4) 402

5) What are the first two common multiples of 3 and 6?

   (1) 6 and 12
   (3) 3 and 6

   (2) 6 and 9
   (4) 3, 6, 9 and 12

6) Which one of the following numbers becomes 18 870 when rounded off to the nearest ten?

(1) 18 769

(2) 18 771

(3) 18 873

(4) 18 878

7) The figure below is made up of 2 rectangles. Find the length of Y.

10 cm

3 cm

Y
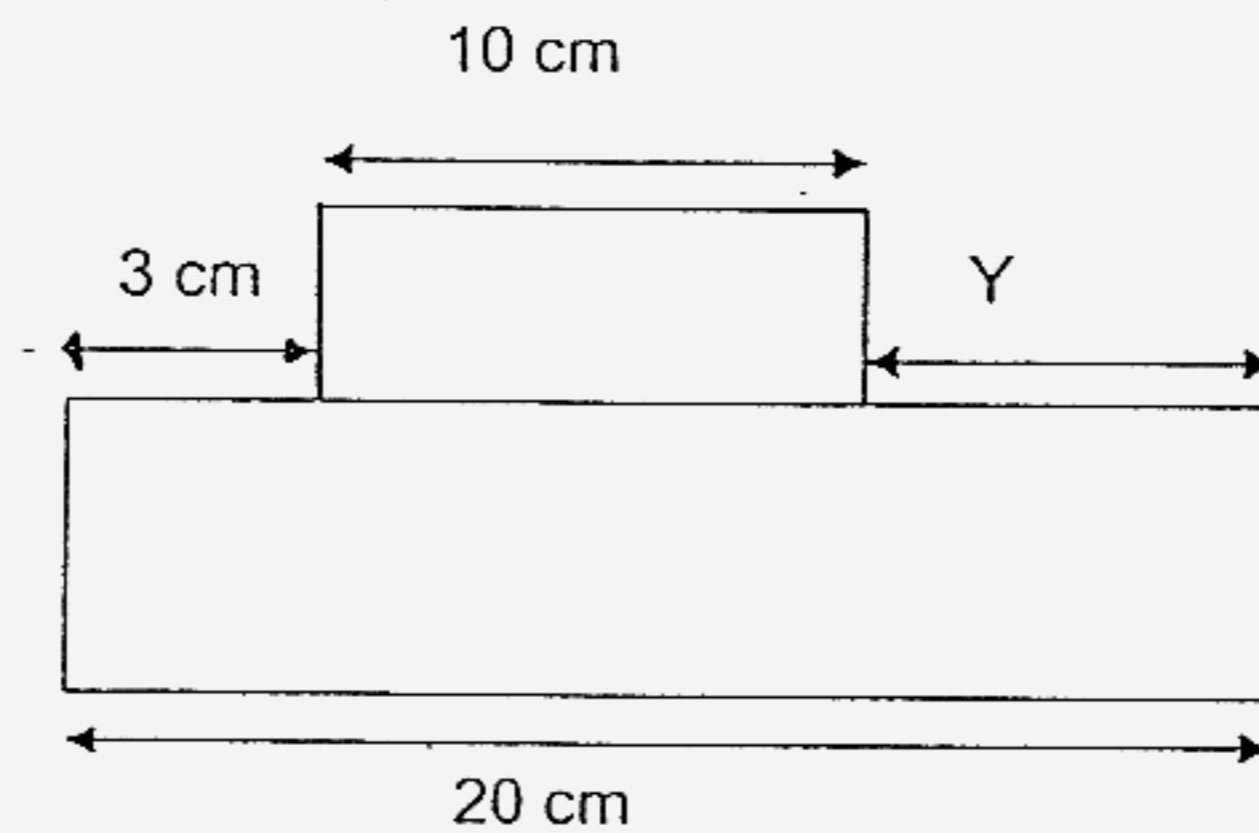
20 cm

(1) 7 cm

(2) 10 cm

(3) 13 cm

(4) 20 cm

which
8) ~~What~~ one of the following is a common factor of 54 and 63?

(1) 2

(2) 3

(3) 6

(4) 7

9) Express $7 \frac{2}{5}$ as an improper fraction.

(1) $\frac{37}{5}$

(2) $\frac{9}{5}$

(3) $\frac{14}{5}$

(4) $\frac{10}{5}$

10) There are _____ eighths in $4 \frac{1}{4}$.

(1) 2
(3) 21

(2) 17
(4) 34

11) What is the difference between 4.6 and $\frac{7}{100}$?
Leave the answer as a decimal.

(1) 2.4
(3) 4.53

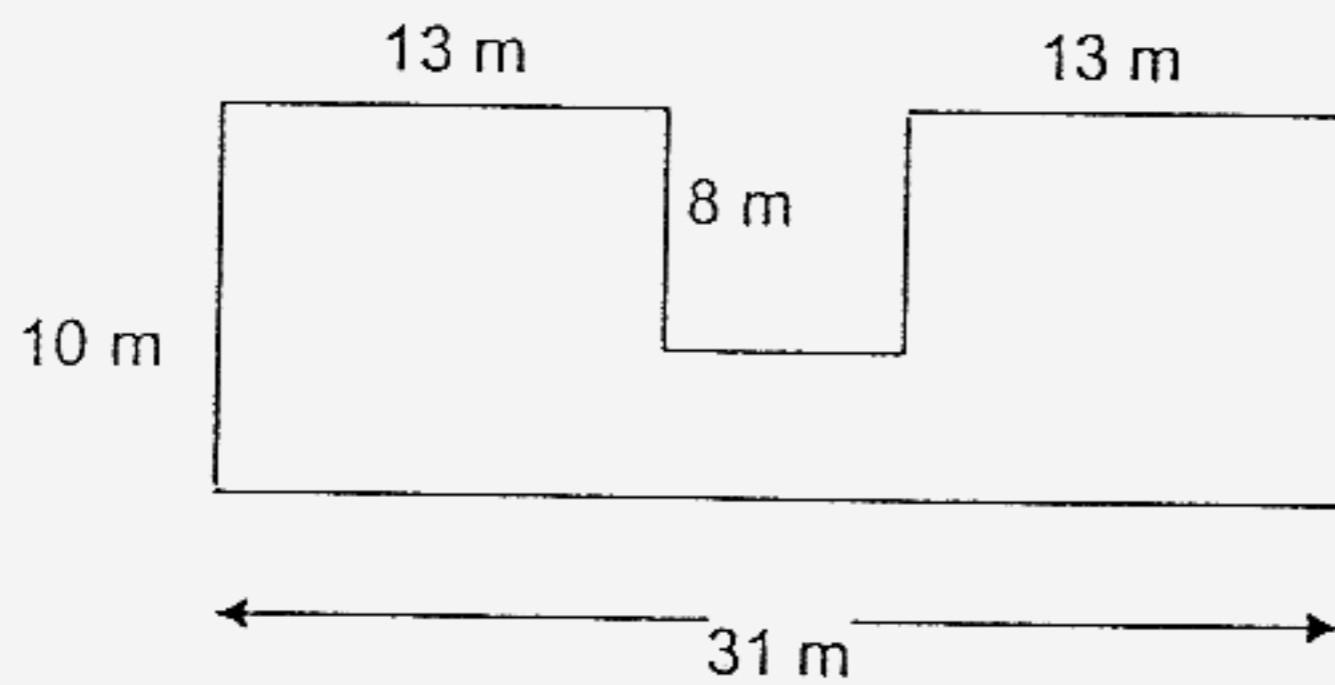(2) 3.9
(4) 4.67

12) Round off 55.678 to 2 decimal places.

(1) 55.60
(3) 55.68

(2) 55.67
(4) 55.70

13) Sam saves $ 652.20 in a year. He saves the same amount monthly. How much does he save in a month?

    (1) $54.00   (2) $54.35
    (3) $543.55   (4) $5435

14) Find the perimeter of the figure below.

    (1) 75 m   (2) 85 m
    (3) 93 m   (4) 98 m

15) Mrs Tan took 1 h 55 min to sew a costume. How long would she take to sew 4 such costumes?

    (1) 6h 00 min   (2) 6 h 20 min
    (3) 6h 40 min   (4) 7 h 40 min
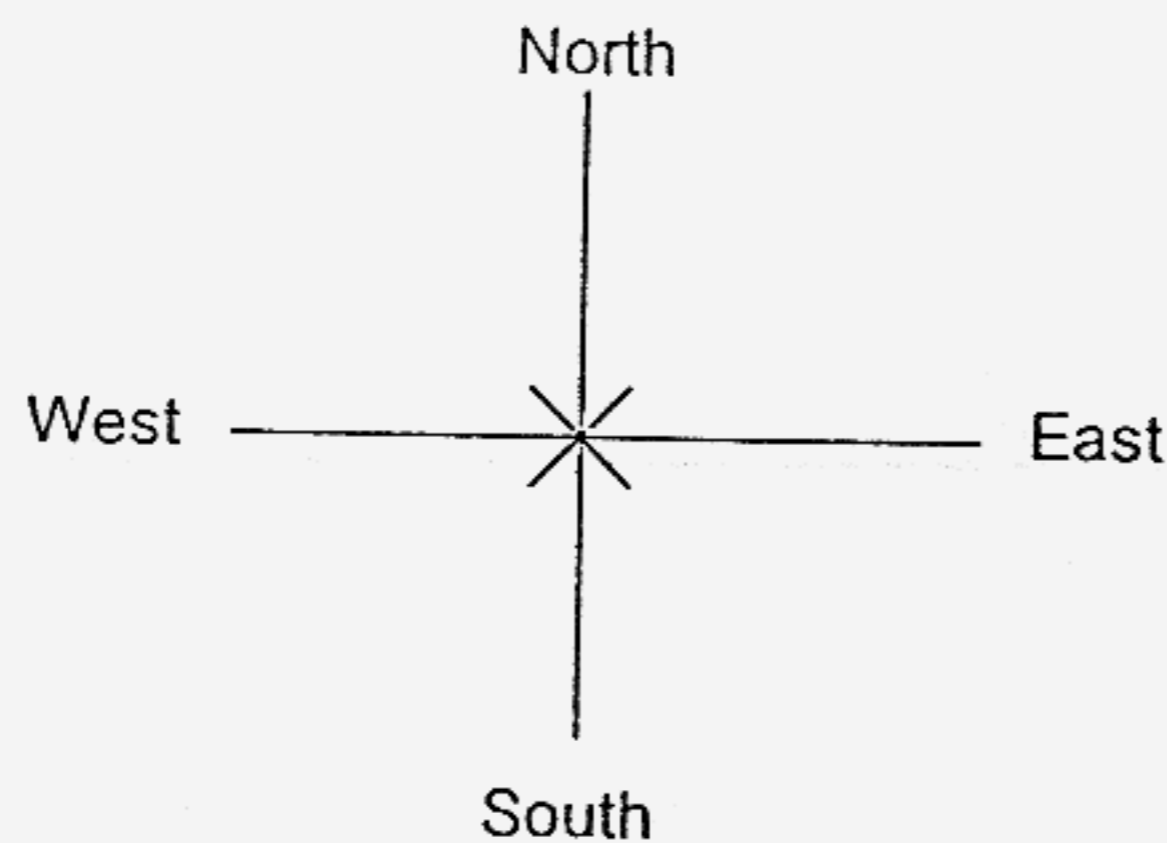
The table below shows the prices of 4 popular brands of T-shirts. Use the information to answer question 16.

Brand	Price
Brand A	$ 12.99
Brand B	$ 18.65
Brand C	$ 22.25
Brand D	$ 19.95

16) Julia bought 2 T-shirts of Brand A and 4 T-shirts of Brand D. How much did she pay altogether? Round off your answer to the nearest dollar.

(1) $104   (2) $105
(3) $103   (4) $106

17)

Sandy was at point X and facing south. She made a $\frac{1}{4}$ turn in an anti-clockwise direction. Which direction was she facing?

(1) West   (2) North
(3) East   (4) South

18) Meiling was given $48 to buy some food for a party. She bought 4 packets of chicken wings at $3.80 per packet. With the rest of the money, she bought each of the guests a can of drink. If each can of drink costs $0.80 and each guest drank 1 can of drink, how many guests did she invite?
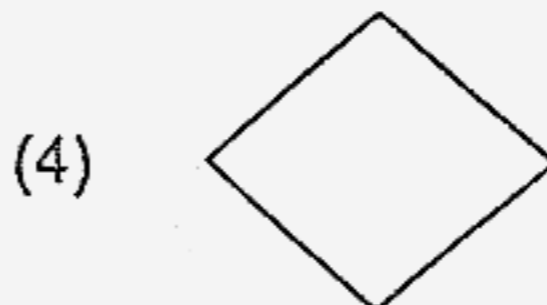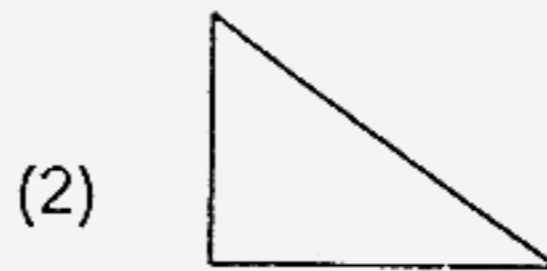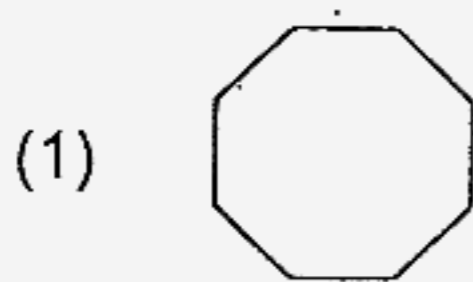
(1) 44   (2) 42

(3) 41   (4) 43

19) Figure ACDB is not drawn to scale. What is the length of CD?
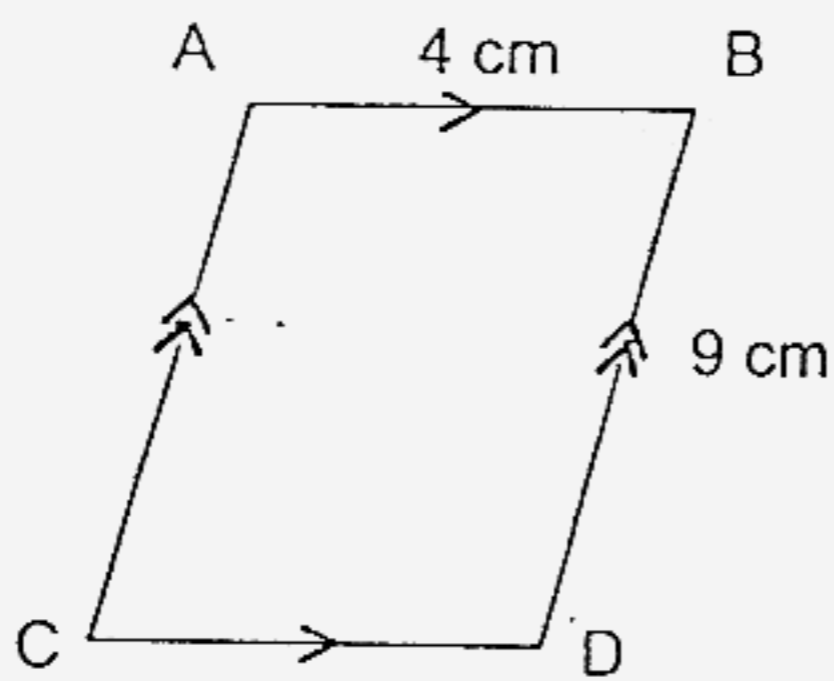
(1) 4 cm   (2) 6 cm

(3) 8 cm   (4) 9 cm

20) Which of the following is a trapezium?

(1)   (2)

(3)   (4)

~ End of Section A ~

Do not write
in this space.

For each question, write its answers in the blanks provided.

21. Round off 62.459 to the nearest hundredths.

Ans: _____

22. Find the sum of 25, 1.25 and 0.345.
Round off the answer to the nearest tenths.

Ans: _____

23. What are the first 2 common multiples of 4 and 6?

Ans: _____, _____

24. Arrange the following in ascending order.

$$4.46, \quad 4\frac{1}{4}, \quad 4.64, \quad 4\frac{5}{8}$$

Ans: _____, _____, _____, _____

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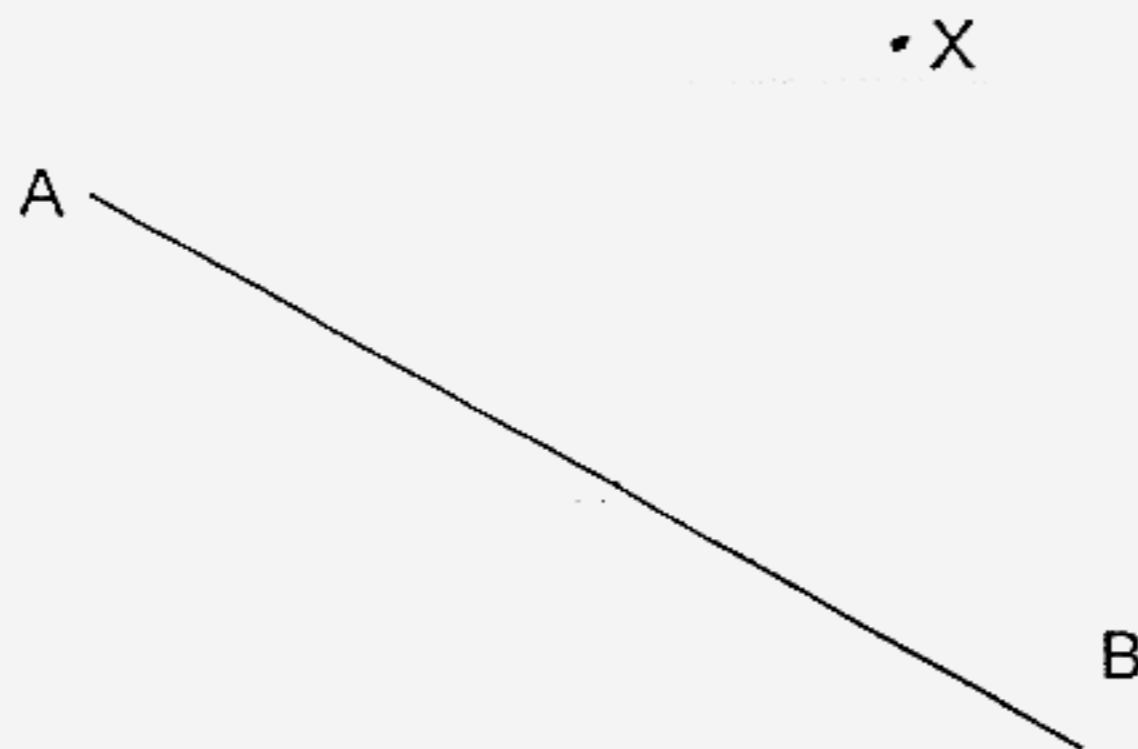25. Form the largest 4-digit even number by using the following digits:

3, 0, 7 and 8

Ans: _____

26. There is 6ℓ 225 mℓ of orange juice in 5 identical jugs. How much orange juice is there in 2 jugs? Leave your answer in ℓ and mℓ.
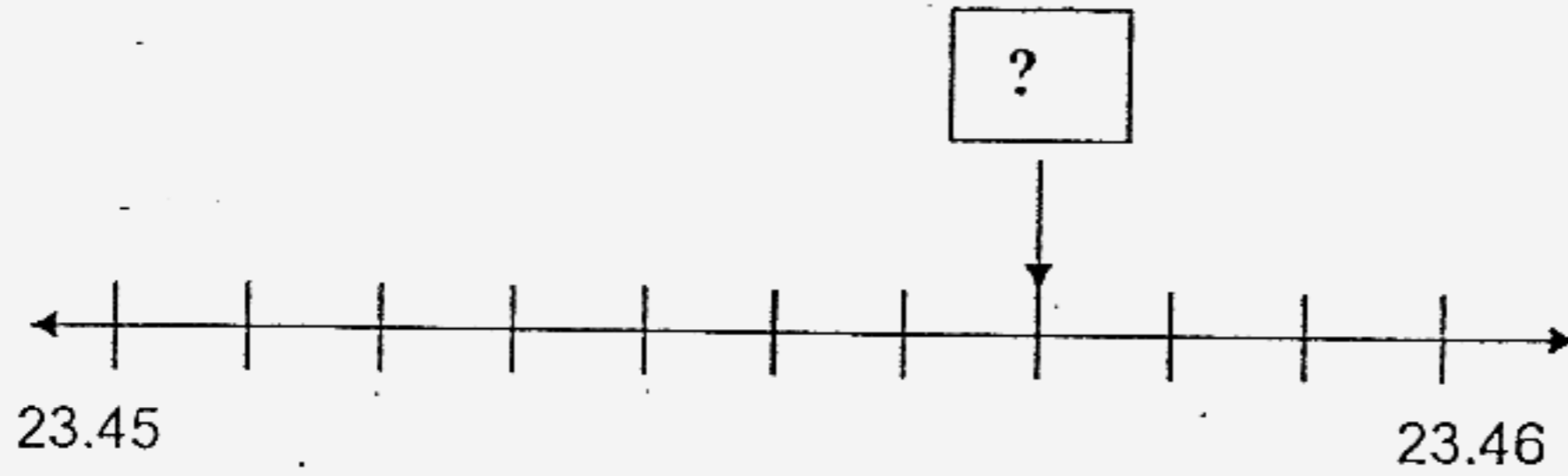
Ans:_____ℓ _____ mℓ

27. Draw a line perpendicular to AB such that it passes through point X.

• X

A

B

28. What is the missing number in the box?

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              ?
        ┌─────────┐
        │         │
        └────┬────┘
             │
             ▼
◄─┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──►
 23.45                    23.46
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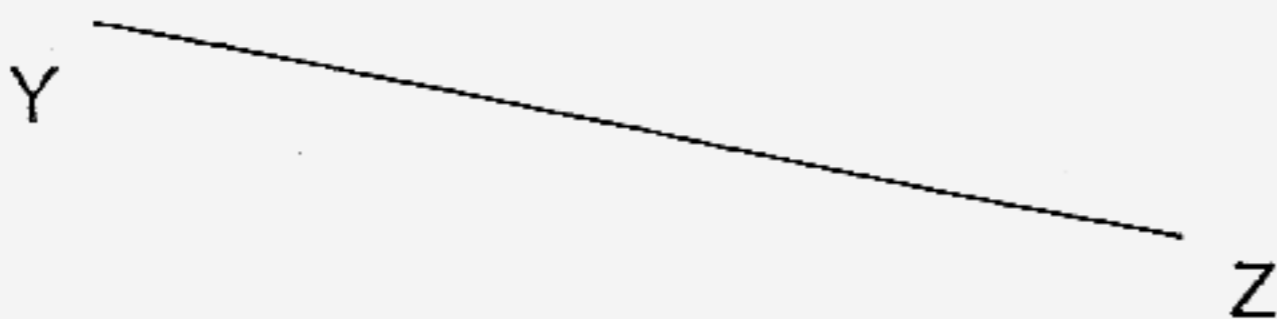
Ans: _____

29. Rope A is 20 m 4 cm long. Rope B is 3 times as long as Rope A.
    Rope C is half the total length of Rope A and Rope B.
    What is the length of Rope C in metres and centimeters?

Ans: _____m _____cm
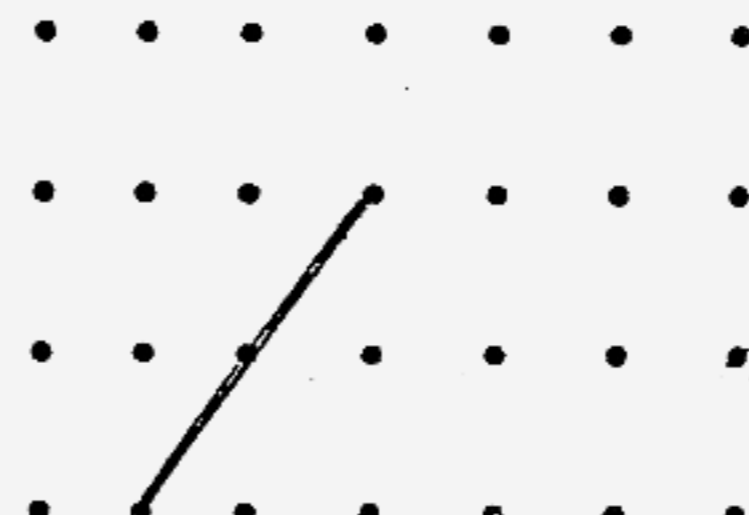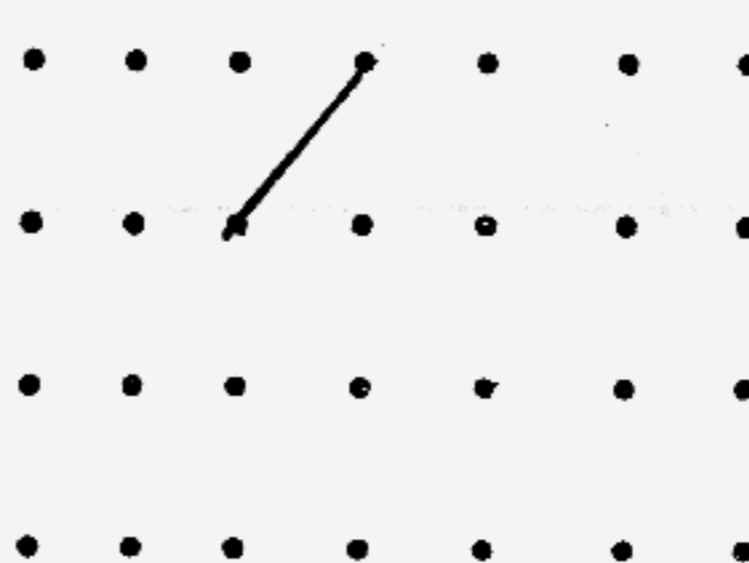
30. <u>Draw</u> and <u>label</u> to show ∠ XYZ = 56°.
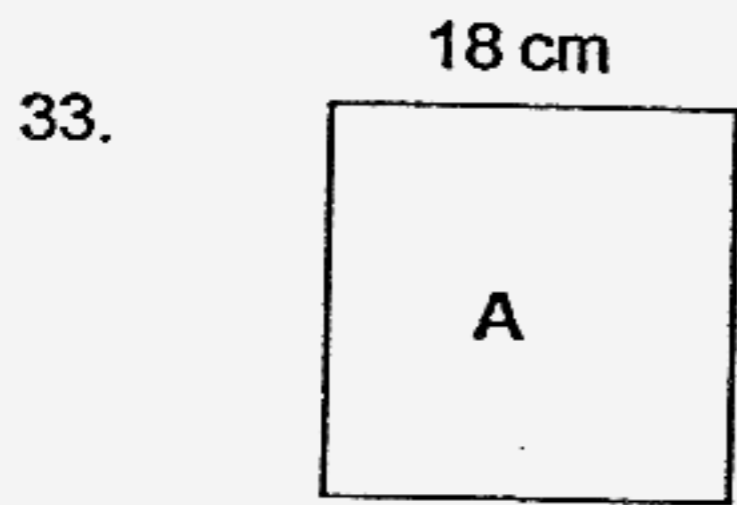
Y
Z

31. The sum of two numbers is 9.2 and their difference is 3.6.
What are the two numbers?

Ans: _____ and _____

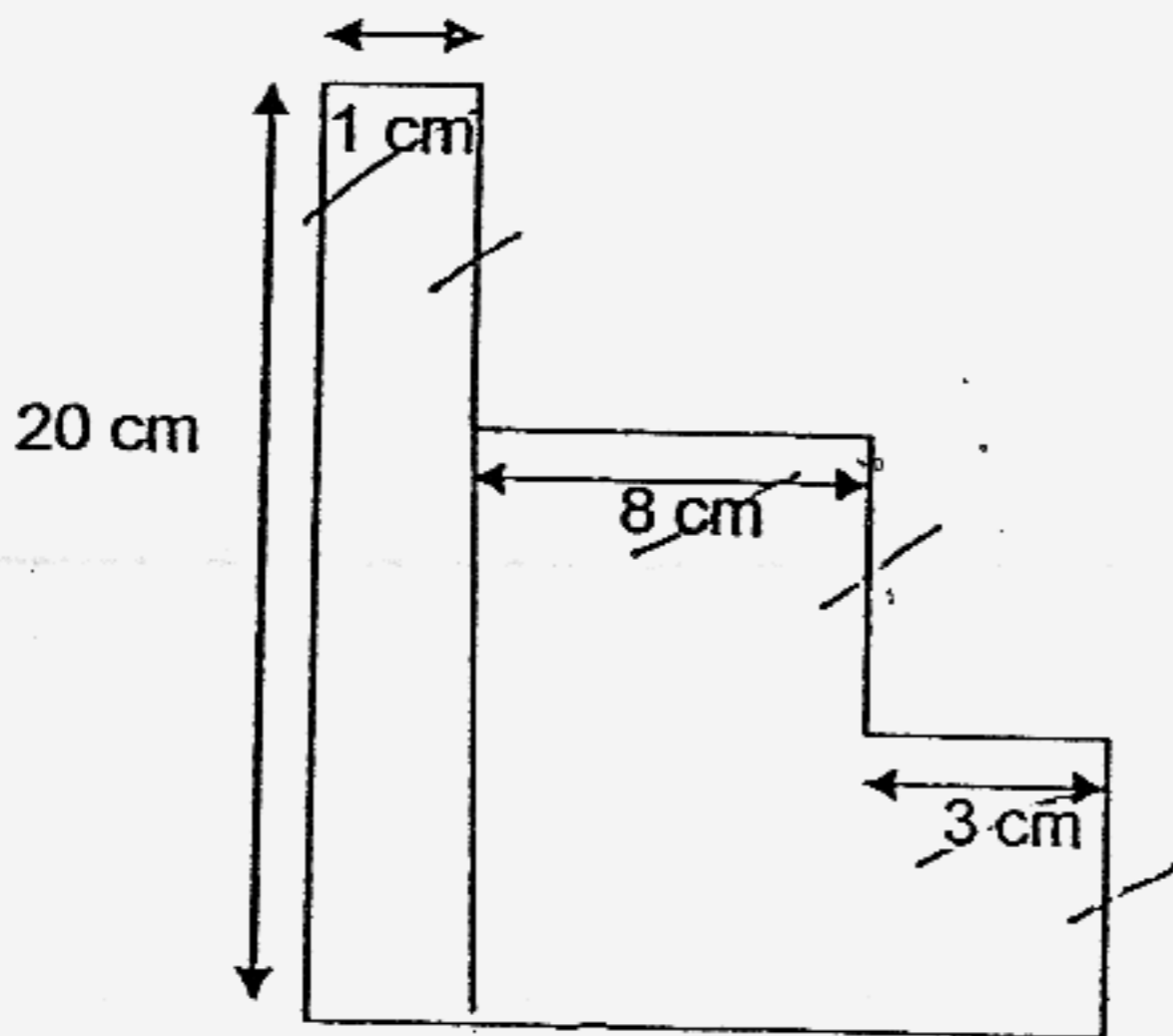32. In the table below, draw the figures given their properties.

Property	Draw the figure
a) A three sided figure with two equal sides.	
b) A four sided figure with four equal sides. The opposite sides are parallel lines, with two pairs of parallel lines	

4

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33.

18 cm

A

9 cm

B
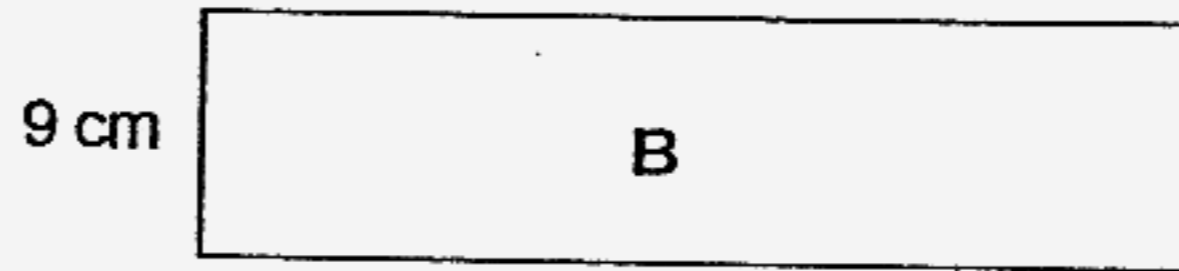
Square A and Rectangle B have the same area
What is the length of Rectangle B?

Ans: _____ cm

34. Find the perimeter of the figure below. (The figure is not drawn to scale).
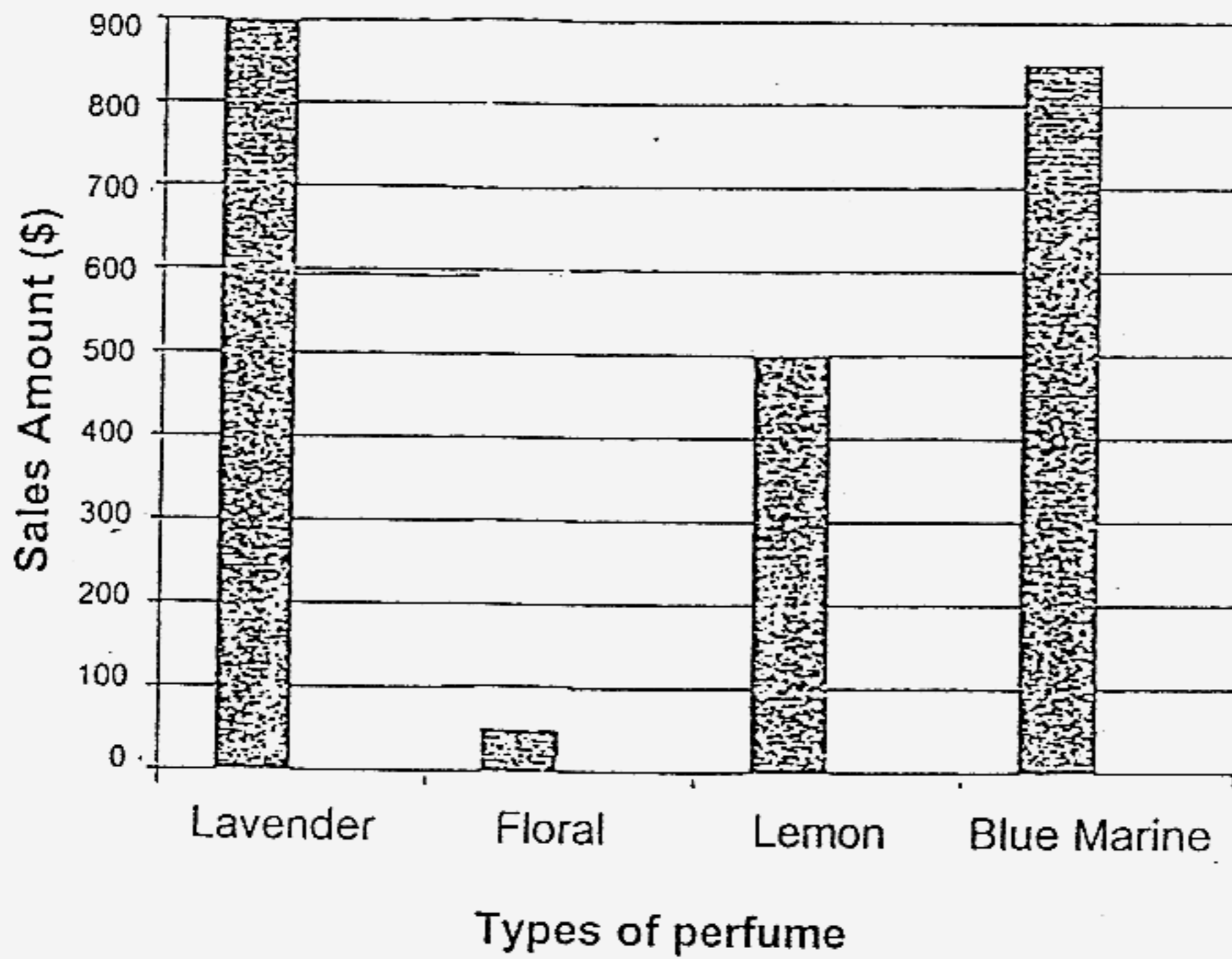
1 cm

20 cm

8 cm

3 cm

Ans: _____ cm

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The graph below shows the sales amount for the number of bottles sold for each type of car perfume at a supermarket.
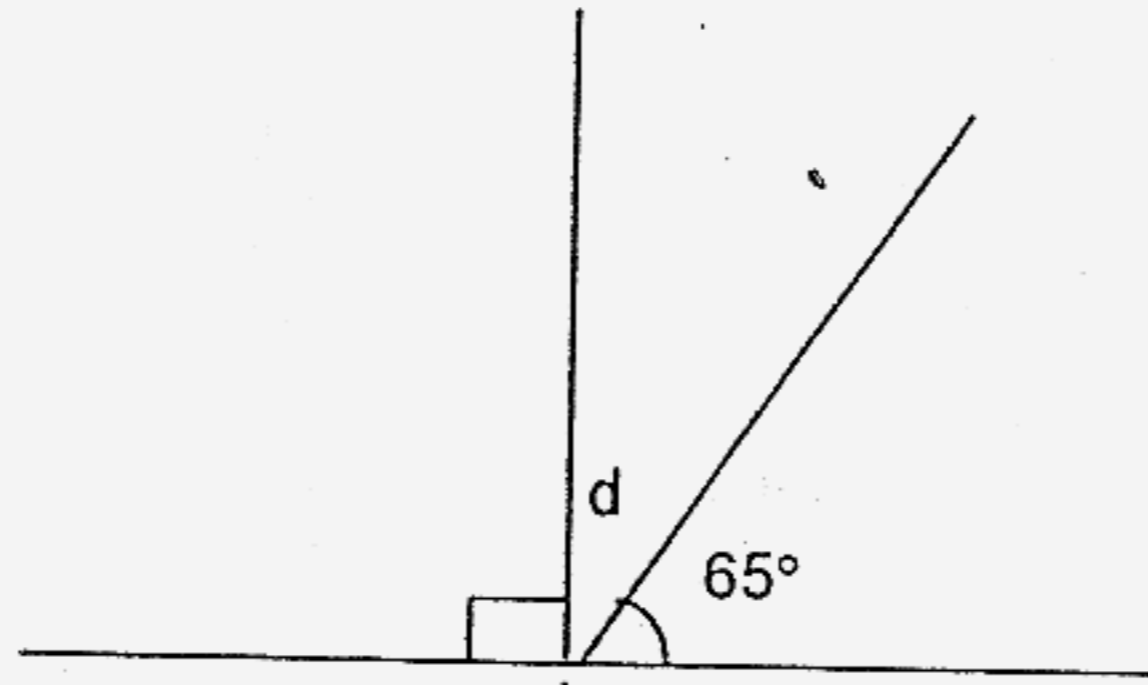
35.   What is the sales amount for the floral perfume if 150 bottles were sold at $4 each? Complete the bar graph by drawing the sales amount.

36.   The number of bottles of Lemon perfume sold has increased by 300 bottles. Express the increase as a fraction of the total number of bottles of lemon perfume sold. Leave the answer in its simplest form.
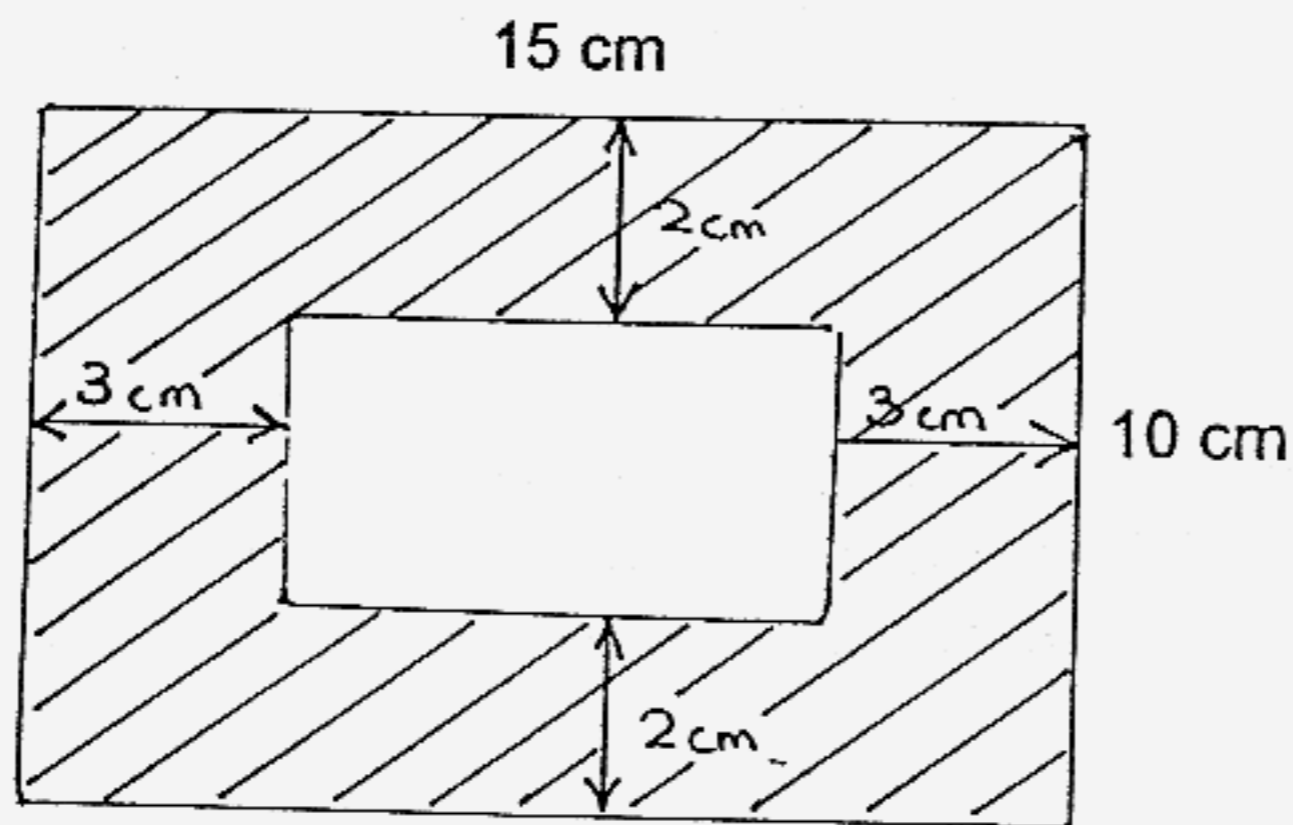
37. Find the unknown angle d.

d

65°

Ans:_____ °

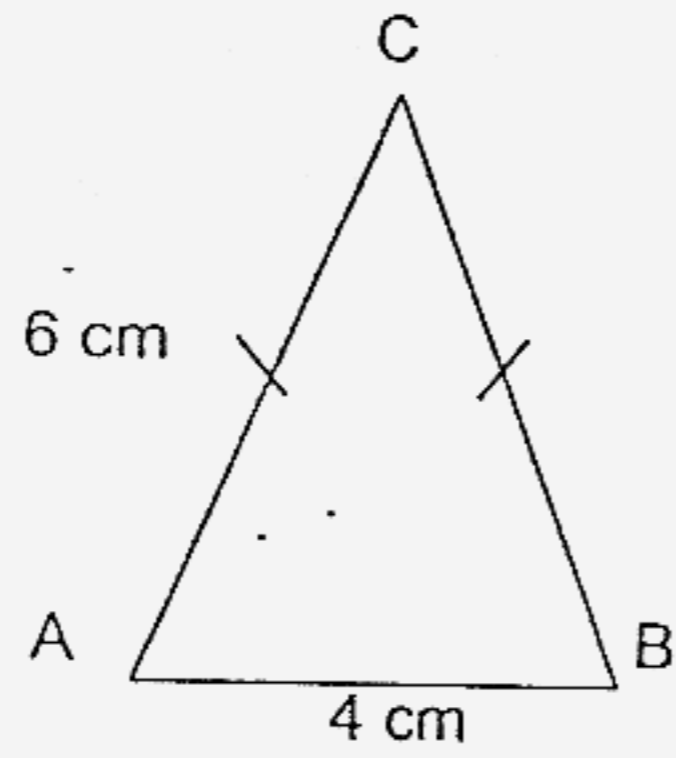38. Find the shaded area in the figure shown below.

15 cm

2 cm

3 cm

3 cm   10 cm

2 cm

Ans: _____ cm²

39. What is the length of BC? (The figure is not drawn to scale).

```
              C
             /\
        6 cm/  \
           /    \
          /      \
        A/_____\B
           4 cm
```

Ans: _____ cm

40. Find the area of the figure below.

```
      |←  4 m  →|
       _____
      |        |  ↑
      |        |  3 m
14 m  |        |__↓_____
      |                     |
      |                     |
      |_____|
         |←    9 m    →|
```
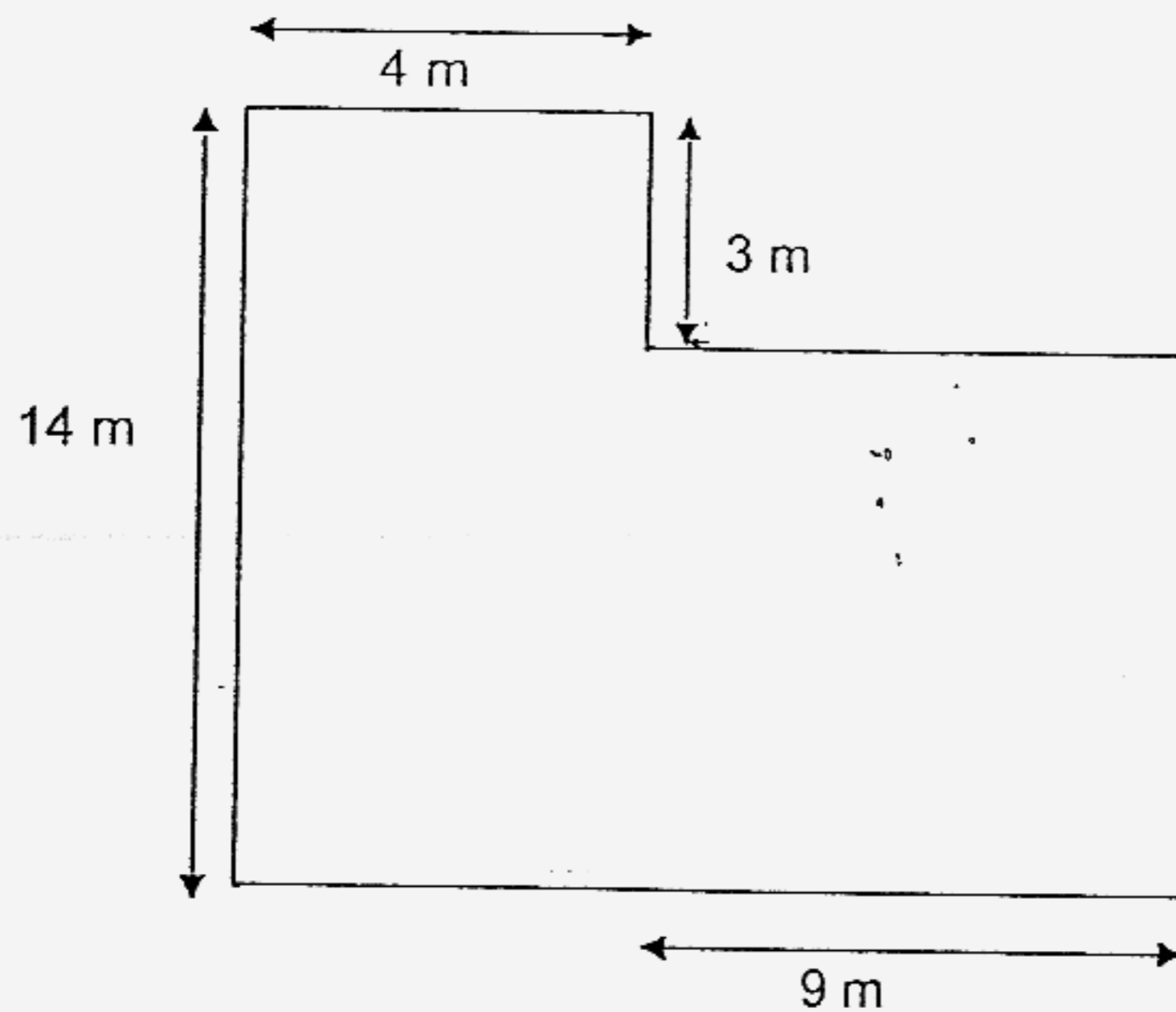
Ans: _____ m²

~ End of Section B ~

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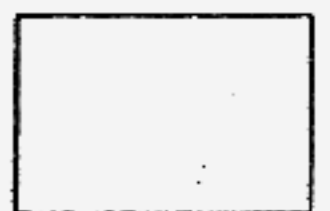
Section C (5 X 4 marks = 20 marks)

Solve the following word problems. All mathematical <u>statements</u> and <u>workings</u> must be shown clearly.

41) A piece of durian cake costs $7.20. A piece of mango cake costs $\frac{3}{4}$ times as much as the durian cake. How much do the 2 pieces of cake cost altogether?
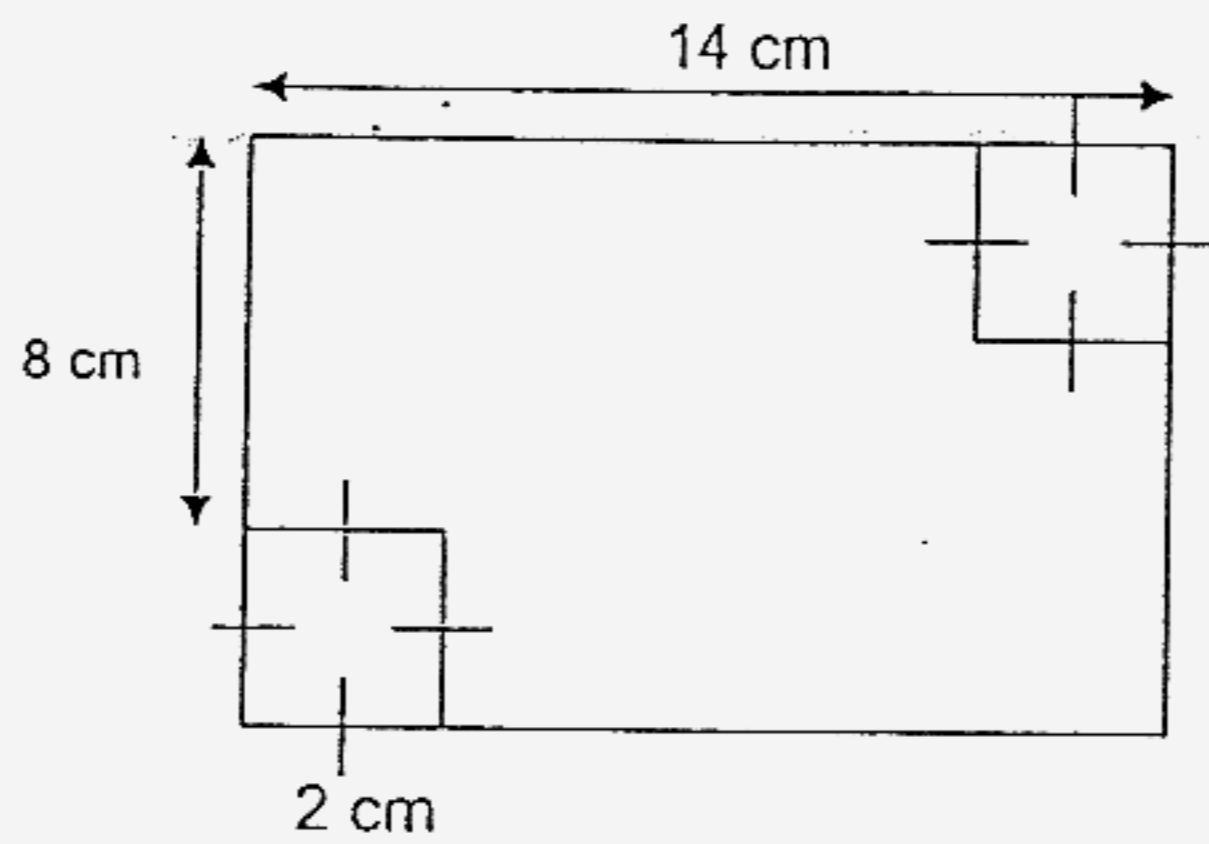
42) Madam Lin removed the grass at the 2 corners of her garden to build water fountains.
a) What is the total area of the grass removed?
b) What area of the garden is now covered with grass?

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43) Ruth had 288 stickers. She gave $\frac{1}{6}$ of her stickers to her sister and divided the remaining stickers equally among her 4 friends.

How many stickers did each friend receive?

44) May paid a total of $9.25 for a pen, a pencil and a file. The pen costs $2.65 more than the pencil. The file costs twice as much as the pencil.
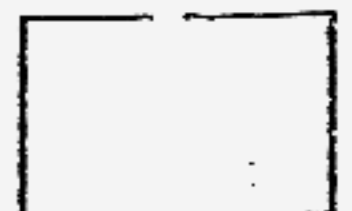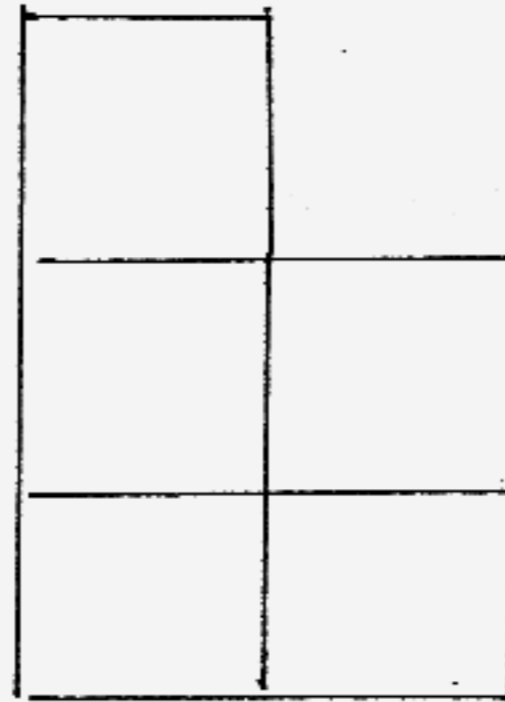
    a) How much did the pencil cost?

    b) Find the difference between the cost of the pen and the file.
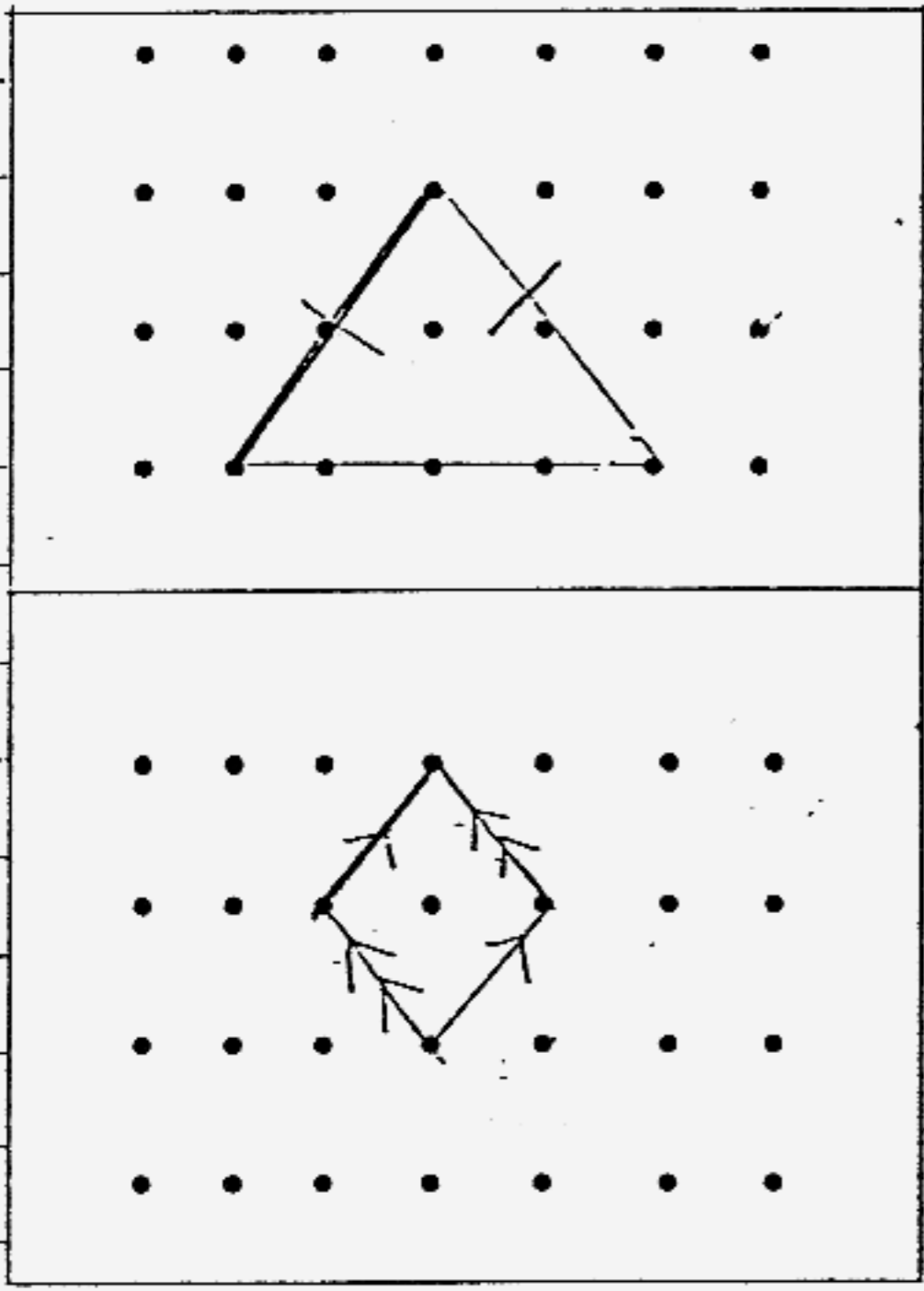
45) The figure shows 2 squares with the smaller square on top of the bigger square. The total area of the figure is 89cm^2. Find the side of each square, given that the sides of both the squares are whole numbers.

1	4	6 – 3	11 – 3	16 – 4	21 – 62.46
2	4	7 – 1	12 – 3	17 – 3	22 – 26.6
3	3	8 – 2	13 – 2	18 – 3	23 – 12.24
4	2	9 – 1	14 – 4	19 – 1	24 – $4\frac{4}{7}$, 4.46, $4\frac{5}{8}$, 4.64
5	1	10 – 4	15 – 4	20 – 3	25 – 8730

26	2, 490	31 – 2.8, 6.4	36 – $\frac{3}{8}$	41 – 812.60
27		32 – ✓	37 – 25	42 – a) 8cm² b) 132cm²
28	23.457	33 – 36	38 – 96	43 – 60
29	40, 8	34 – 64	39 – 6	44 – a) 81.65 b) 8 1
30		35 – ✓	40 – 155	45 – 8cm

32

35