AI TONG SCHOOL

2006
SEMESTRAL ASSESSMENT 1
PRIMARY 4

MATHEMATICS

DURATION : 1 H 45 MIN

DATE: 9 May 2006

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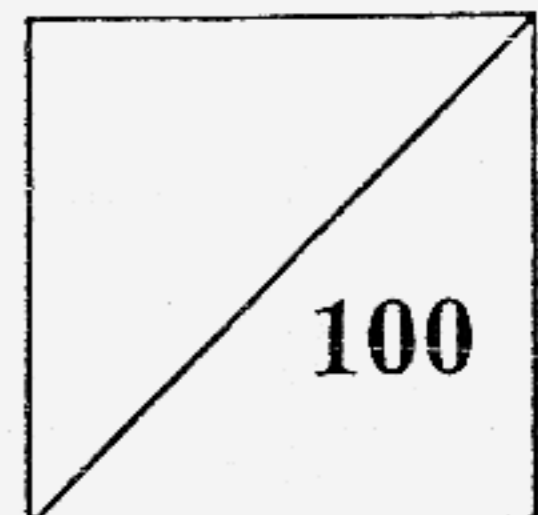Do not open the booklet until you are told to do so.
Follow all instructions.
Answer all questions.

Name   : _____ (   )

Class   : Primary 4_____   Marks: /100

Parent's Signature : _____

Date   : _____

For each question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet
with a 2B pencil. (20 marks)

Questions 1 to 10 carry 1 mark each.

1. How many tens are there in eight thousand?

    1) 8
    2) 80
    3) 800
    4) 8000

2. Find the product of 56 and 23. Round off your answer to the nearest hundred.

    1) 1 200
    2) 1 280
    3) 1 290
    4) 1 300

3. What must be subtracted from 99 999 to get 98 999?

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

4. How many quarters are there in $3\frac{1}{2}$?

    1) 7
    2) 8
    3) 10
    4) 14

5. There are 9 green parrots, 7 yellow parrots and 5 red parrots.
   What fraction of the parrots is yellow?

   1) $\dfrac{1}{3}$

   2) $\dfrac{7}{5}$

   3) $\dfrac{7}{12}$

   4) $\dfrac{7}{16}$

6. $75 \times 18 = 70 \times 18 + $ _____

   1) 5
   2) 18
   3) 75
   4) 90

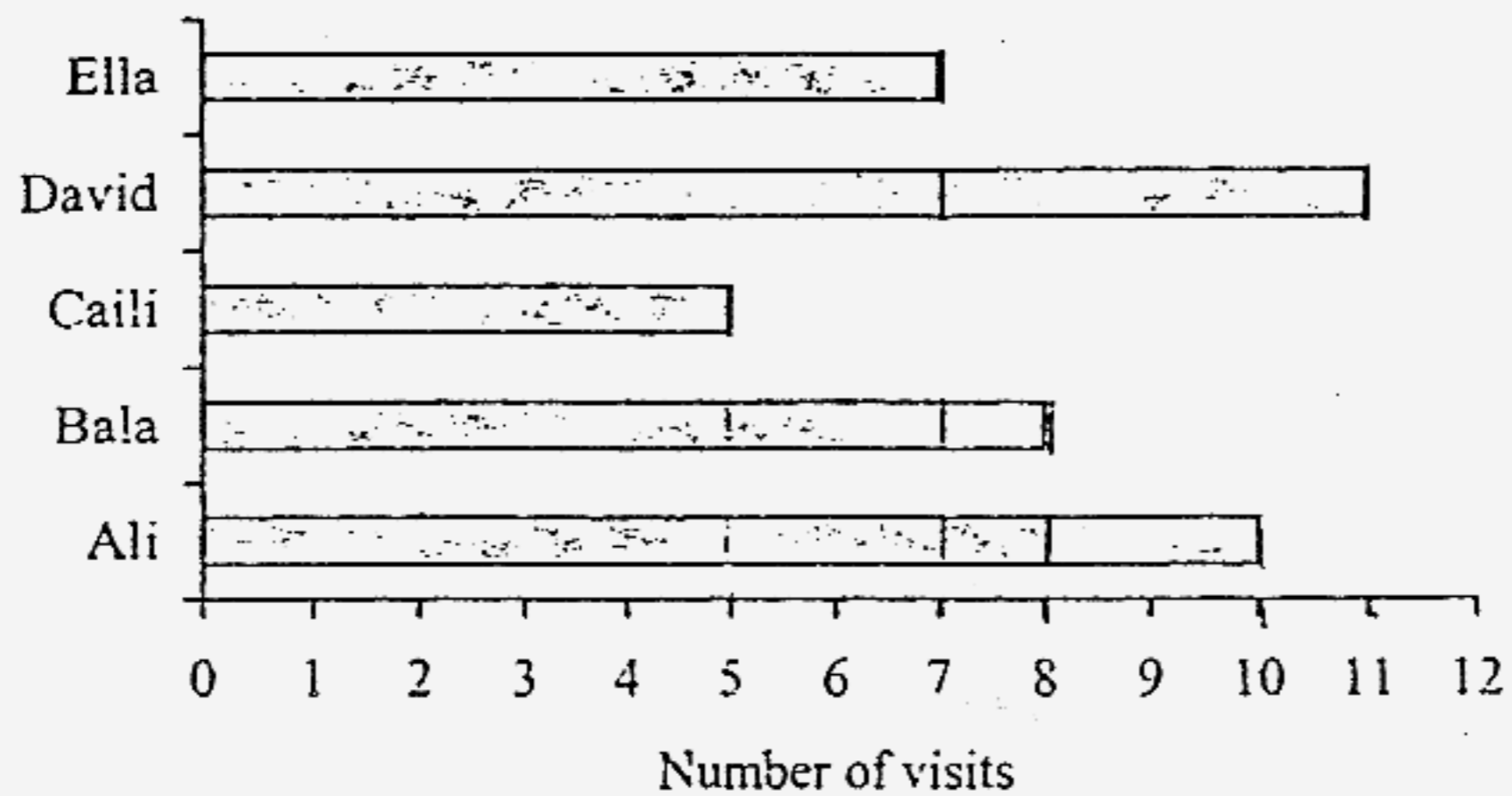7. Estimate the sum of 1057 and 3009 by rounding off each number to the **nearest hundred.**

   1) 4 000
   2) 4 060
   3) 4 070
   4) 4 100

2

The graph shows the average number of visits to the library by 5 pupils **in a month.**
Use the graph to answer questions 8 to 10.

Number of visits

8. How many more visits does Ali make than Ella?

1) 1
2) 2
3) 3
4) 5

9. What is the total number of visits by the 5 pupils in a month?

1) 40
2) 41
3) 42
4) 43

10. What is the total number of visits made by Bala in a year?

1) 60
2) 84
3) 96
4) 120

Questions 11 to 15 carry 2 marks each

11.　　The figure below shows a rectangle (not drawn to scale), find the value of ∠x.
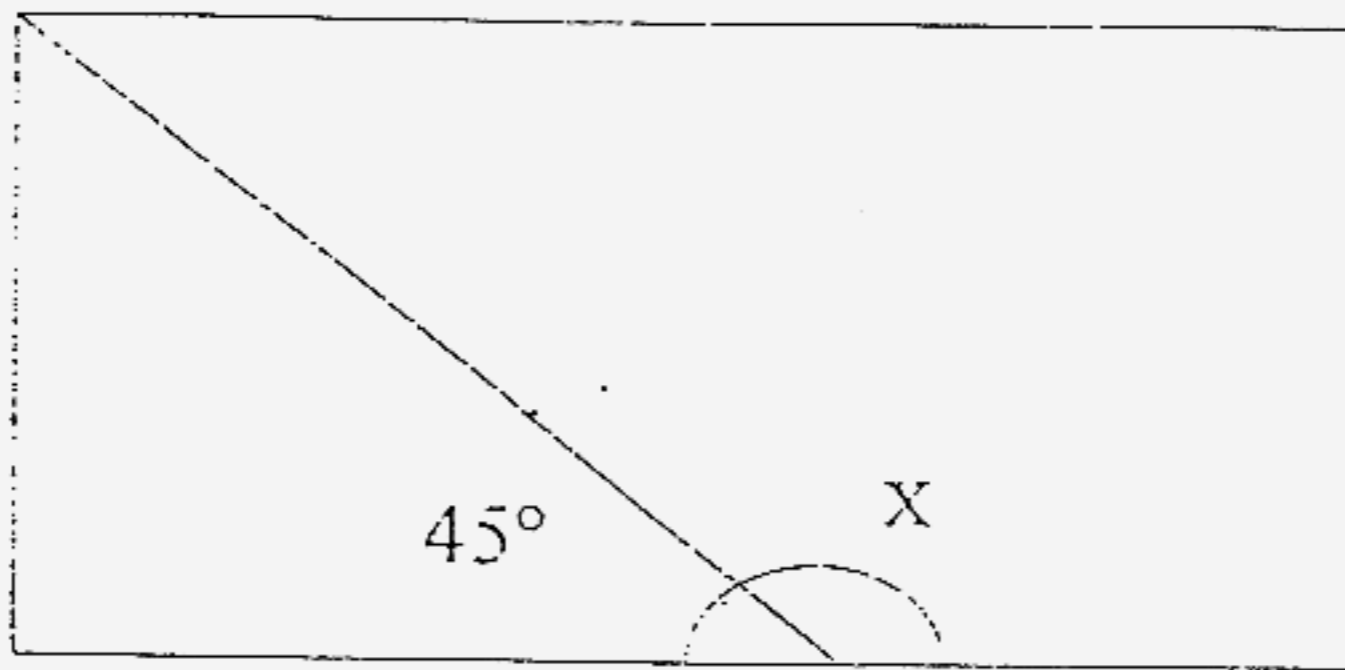
    1)　45°

    2)　135°

    3)　225°

    4)　315°

12.　　The figure below shows a rectangle which is made up of 2 identical squares.
　　　　(The figure is not drawn to scale.)

Area of a
square= 25 cm²
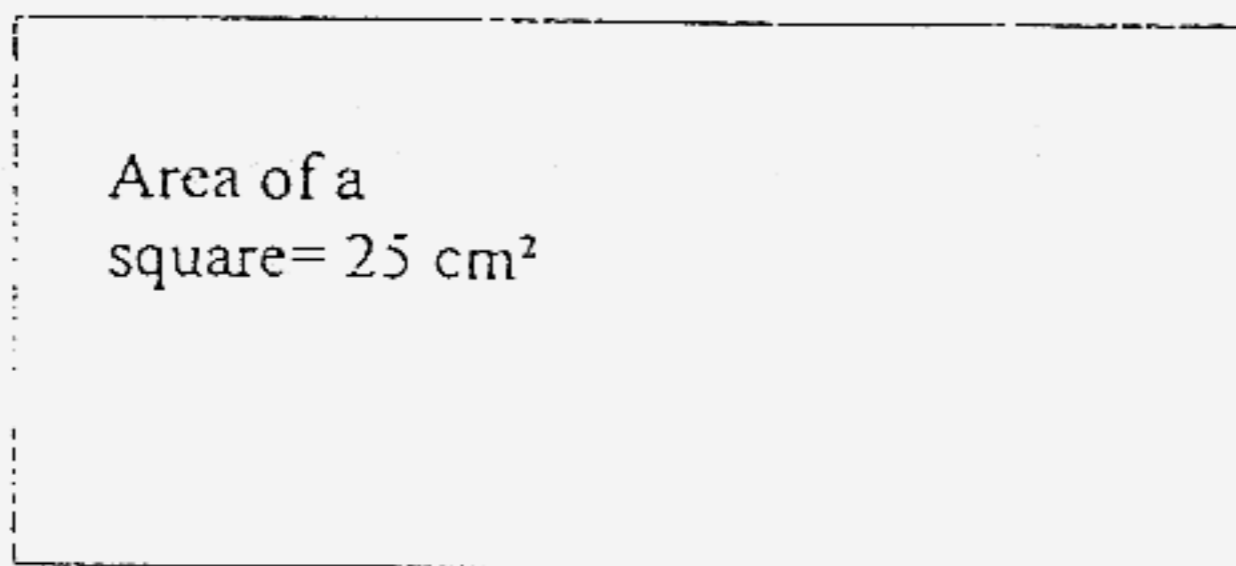
What is the perimeter of the figure?

    1)　25 cm

    2)　30 cm

    3)　40 cm

    4)　50 cm

4

13. Mr Tan bought 40 packets each containing 16 bookmarks. He repacked them into packets of 6. How many bookmarks were left **unpacked**?

   1) 4
   2) 16
   3) 40
   4) 106

14. It costs $4 to paint $\frac{1}{3}$ m of a fence. How much does it cost to paint 5 m of the fence?

   1) $12
   2) $20
   3) $60
   4) $120

15. June spent $\frac{2}{5}$ of her money on a skirt and $40 on a handbag. She had $20 left.

   How much money did she **spend** altogether?

   1) $60
   2) $80
   3) $100
   4) $120

<u>Section B</u>
Write your answers in the spaces provided.
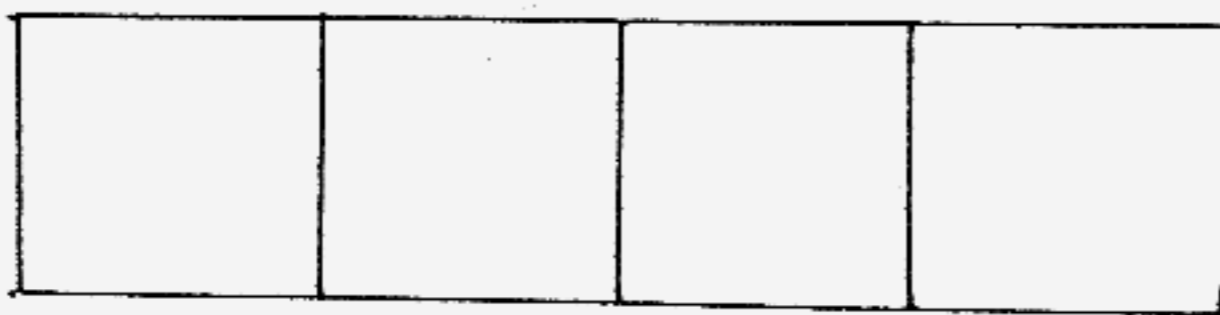**For questions which require units, give your answers in the units stated . (40 marks)**

Questions16 to 35 carry 2 marks each.

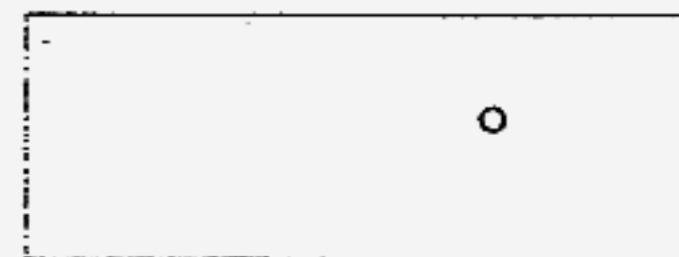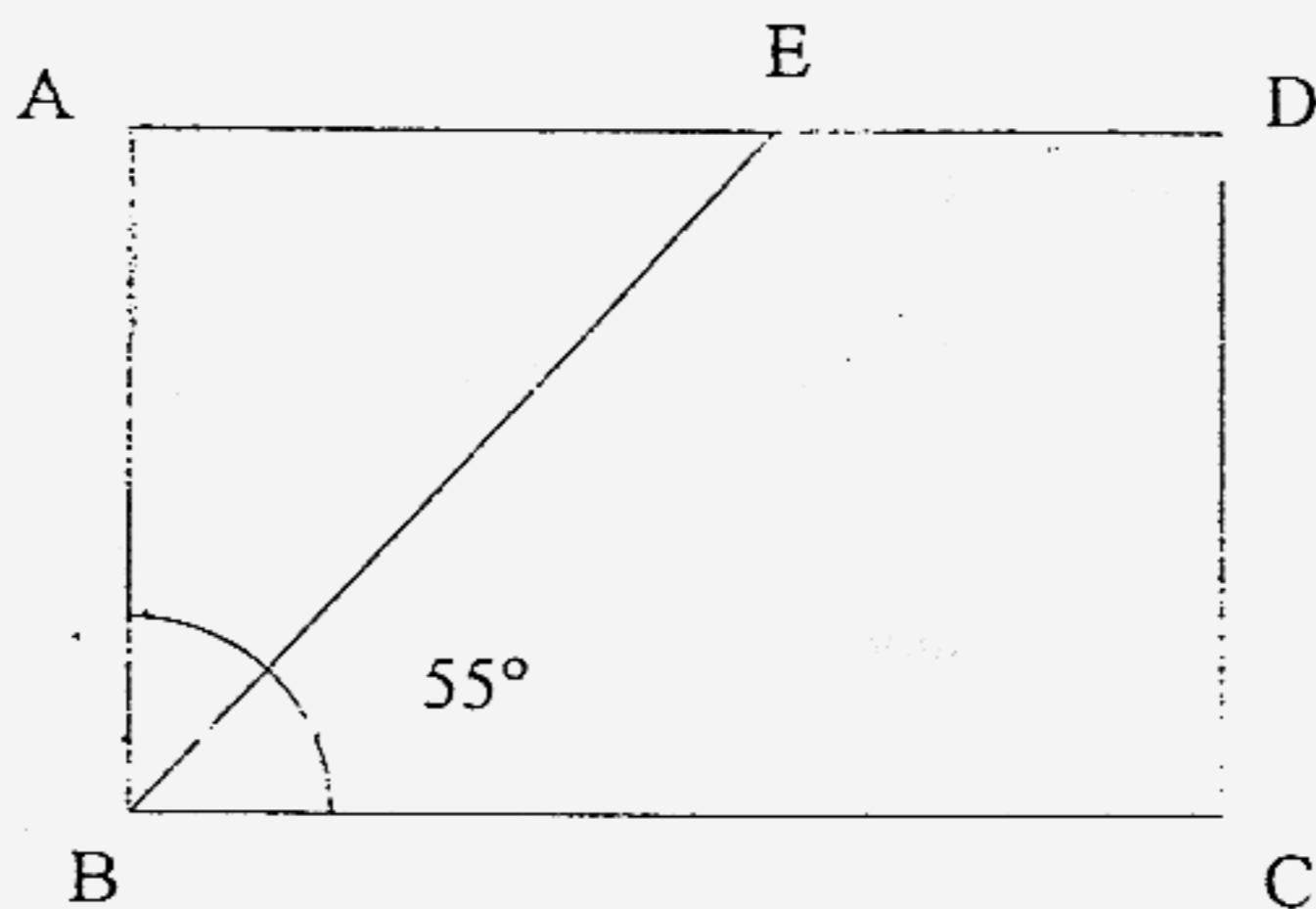16.   46 thousands, 2 hundreds and 30 ones when written in numerals is _____ .

17.   When a number is divided by 15, its quotient is 104
       and the remainder is 3. What is the number?

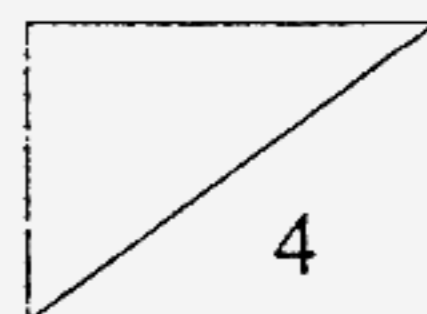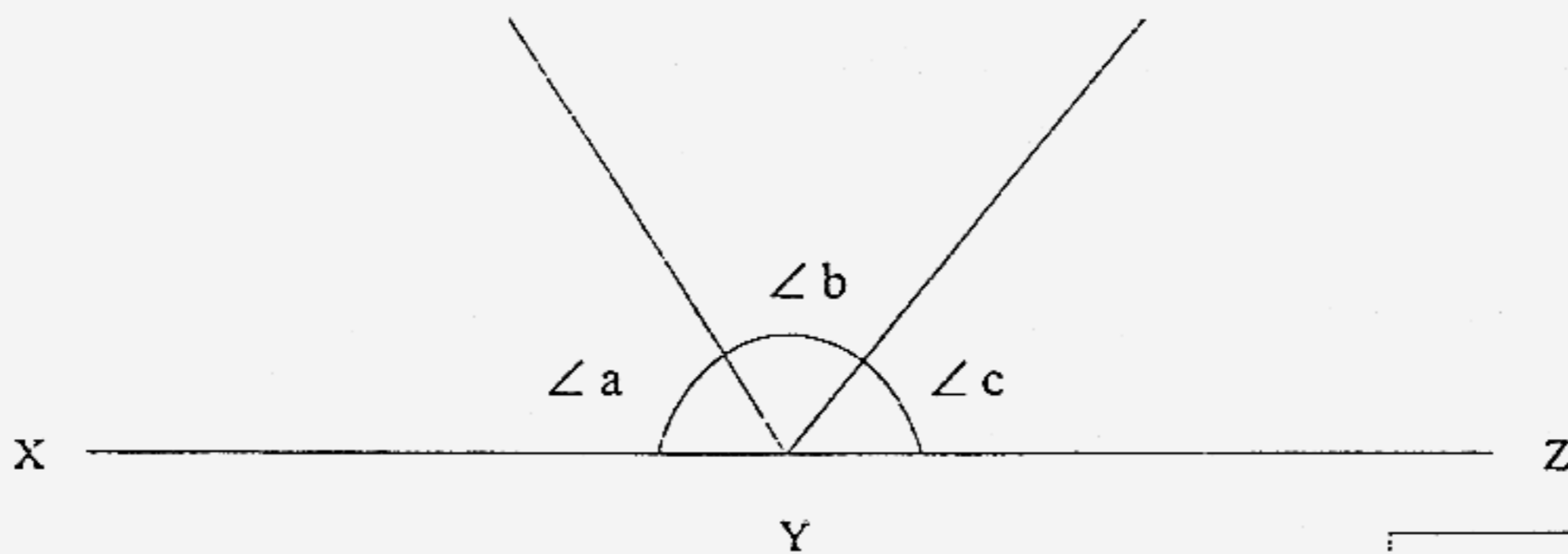18.   Express $7\frac{3}{4}$ as an improper fraction.

19.   Shade $\frac{7}{8}$ of the figure below.

8
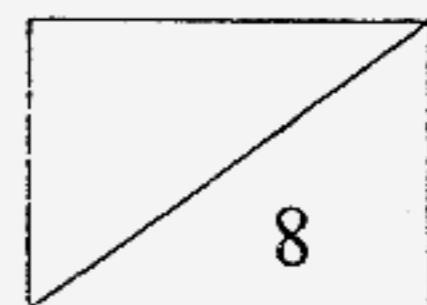
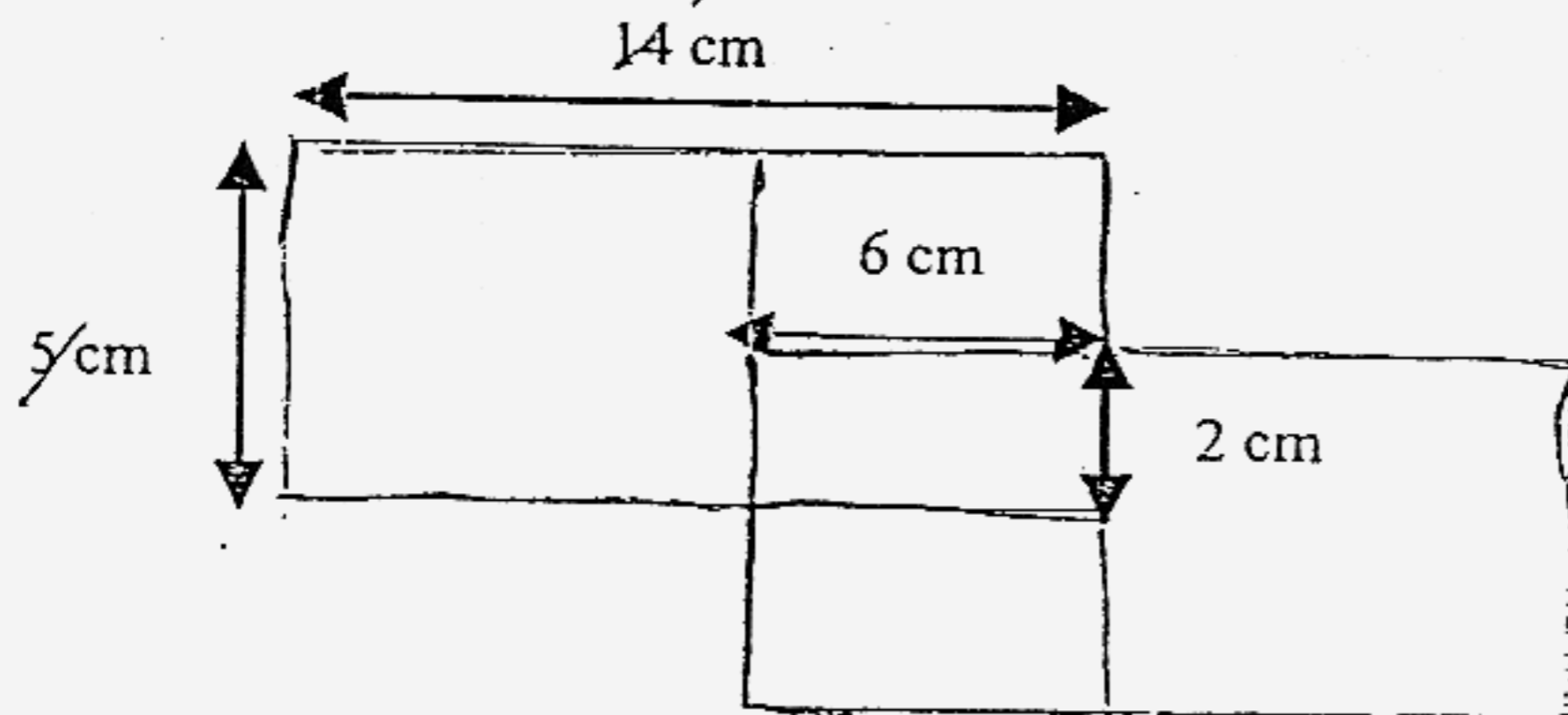20. The figure below is not drawn to scale. ABCD is a rectangle. Find ∠ABE.

E

A   D

55°

B   C

[o   ]

21. In the figure below, XYZ is a straight line.

If ∠a = ∠b = ∠c, find ∠a. (The figure is not drawn to scale.)

∠b

∠a   ∠c

X ———————————————— Z

Y

[o   ]

[4   ]

The figure below is made up of 2 identical rectangles.
Refer to the figure below to answer questions 22 and 23.
(The figure is not drawn to scale.)

14 cm

6 cm

5 cm

2 cm

22.   What is the perimeter of the figure?

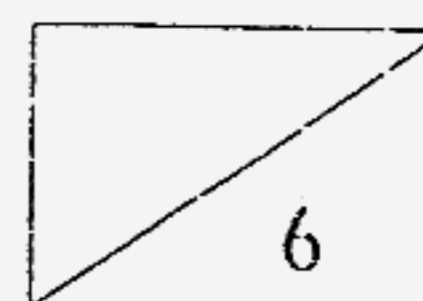cm

23.   What is the area of the figure?

cm²

24.   Mrs Chen had 9 pies. She gave away $\frac{4}{9}$ of her pies to her neighbours.

She ate $\frac{1}{5}$ of the remaining pies. How many pies had she left?

6

8

25. A group of children shares 4 176 marbles equally. If each child gets 8 marbles, how many children are there altogether?

26. There are 2 numbers. The first number is 4 times that of the second number. If the sum of the 2 numbers is 6000, what is the first number?

27. In the figure below, ACB is an equilateral triangle and BCD is a straight line. Find ∠ACD. (The figure is not drawn to scale)

A

D   C   B

°

6
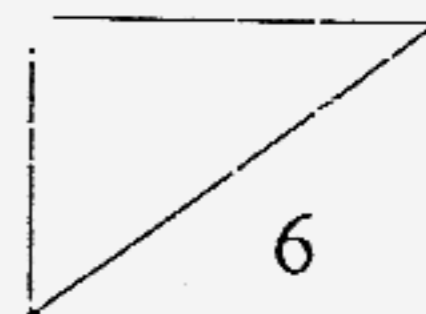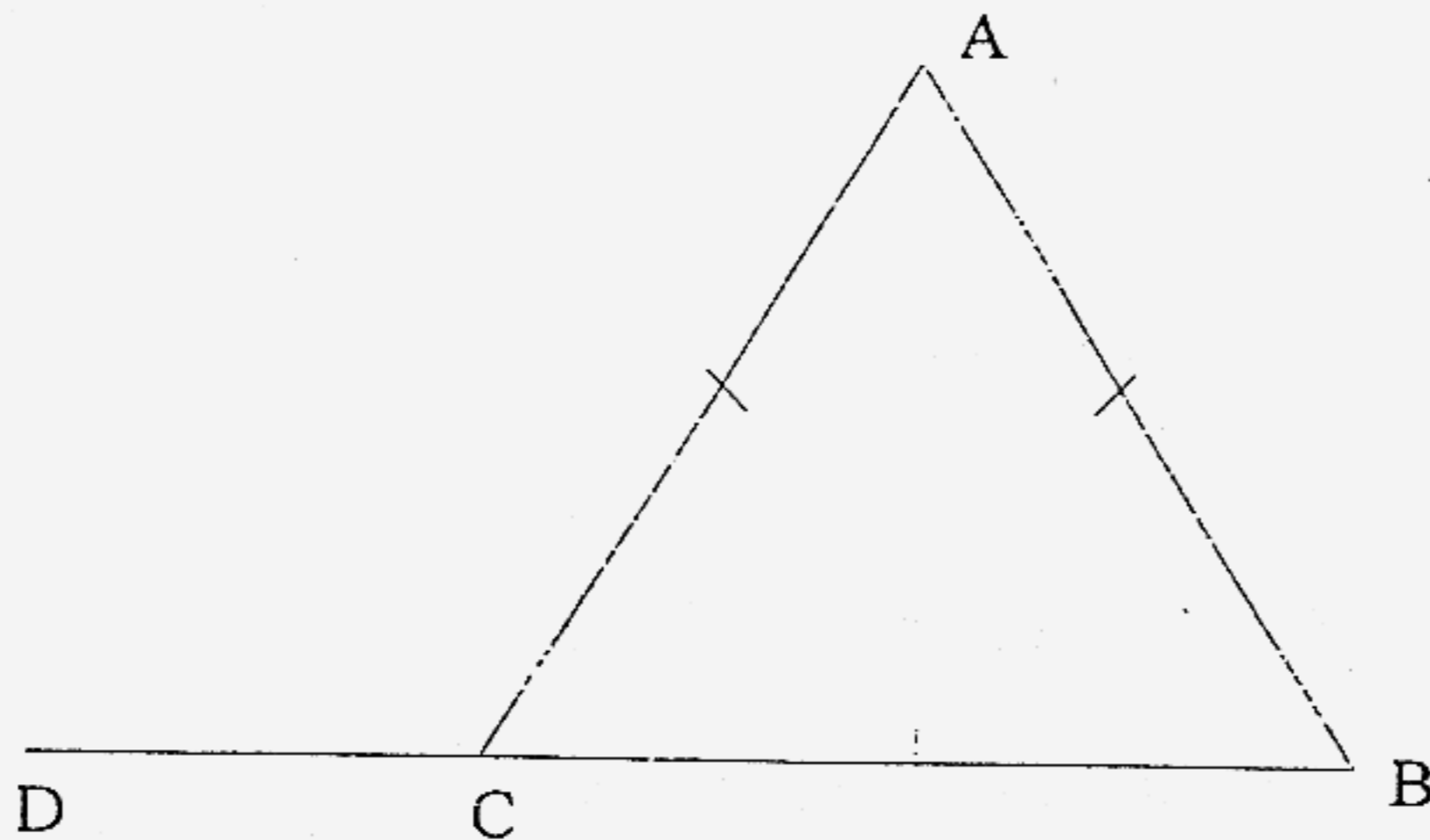
Refer to the figure below to answer questions 28 and 29.

The figure ABCD is made up of 2 squares. (The figure is not drawn to scale)
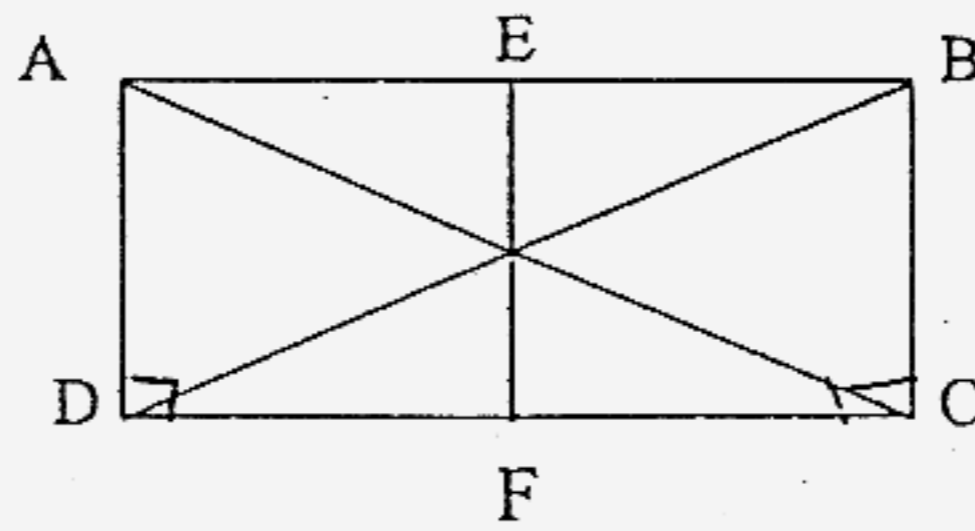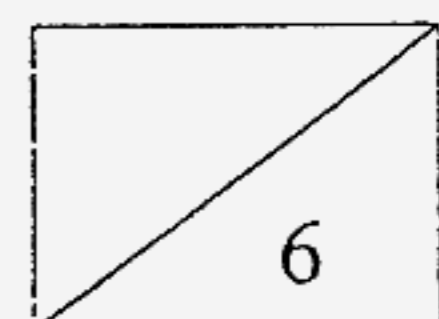

28. Name **2 lines** which are perpendicular to CD?

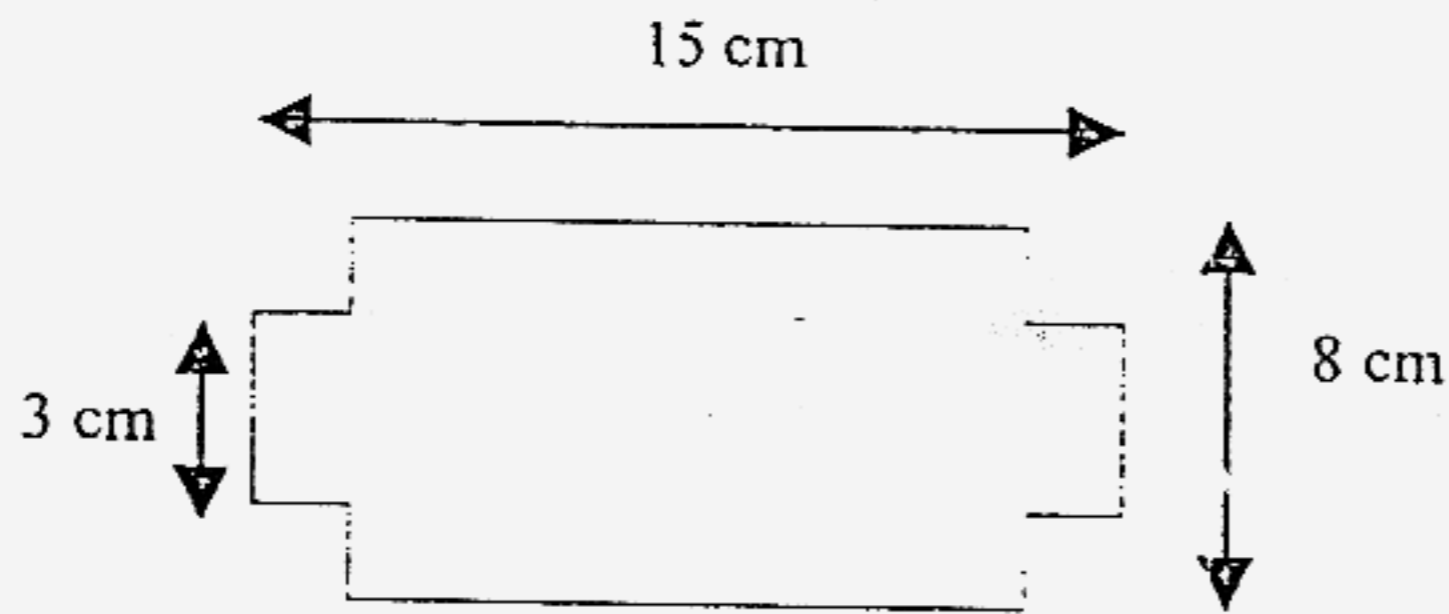and

29. Name **2 lines** that are **parallel** to EF.

and

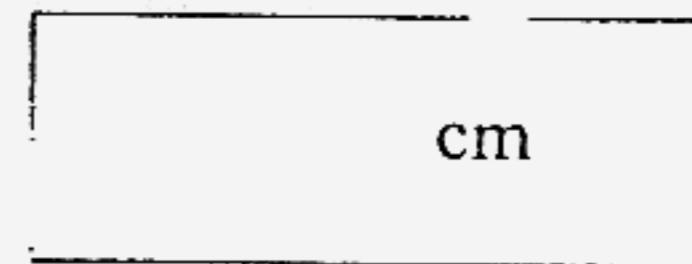30. What is the sum of the fifth multiple of 3 and the ninth multiple of 6?

6

31. The hour hand of a clock travels through _____ right angles from 12 noon to 12 midnight.
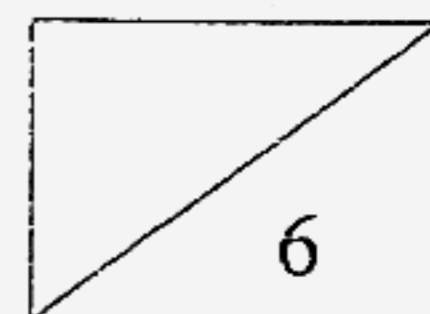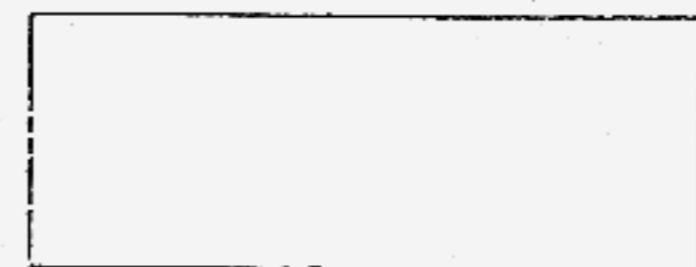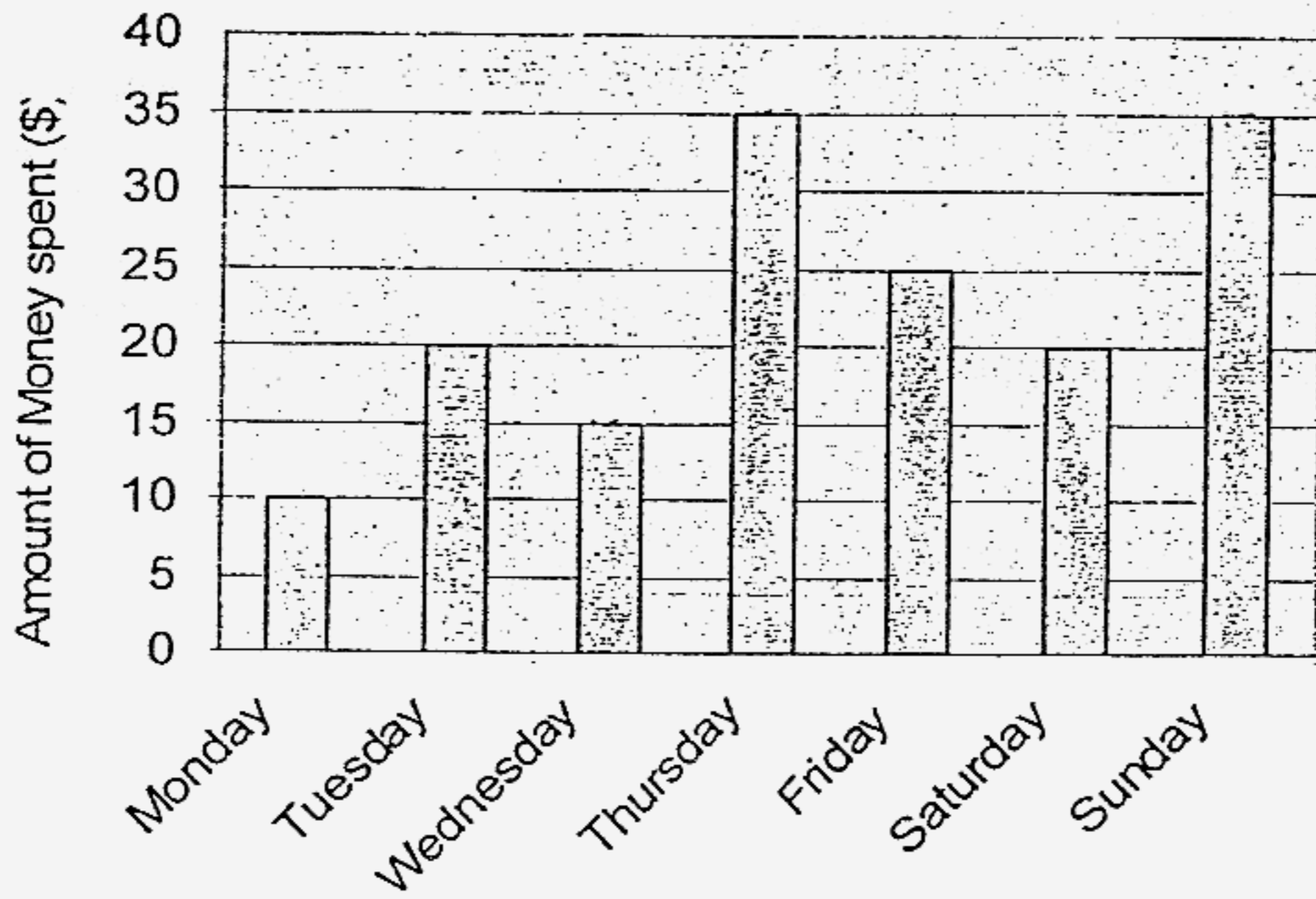
32.

What is the perimeter of the figure shown above?

(The figure is not drawn to scale.)

cm

33. A teacher bought 12 boxes of pencils. Each box had 24 pencils. She gave 3 pencils to each of her 42 pupils. How many pencils had she left?

6

The graph above shows the amount of money Elvis spends in a week.
Refer to the graph and answer questions 34 and 35.

34. Altogether, how much does Elvis spend on Monday and
     Tuesday?

     $

35   How much more does he spend on Thursday than on Friday?

     $

     4

Section C
Questions 36 to 45 carry 4 marks each.
Show your working clearly in the space provided for each question and write your answers in the spaces provided.   (40 marks)

36.   3 fans and 2 air-conditioners cost $ 5 500. If 1 fan and 2 air-conditioners cost $4 500, find the cost of 1 fan.
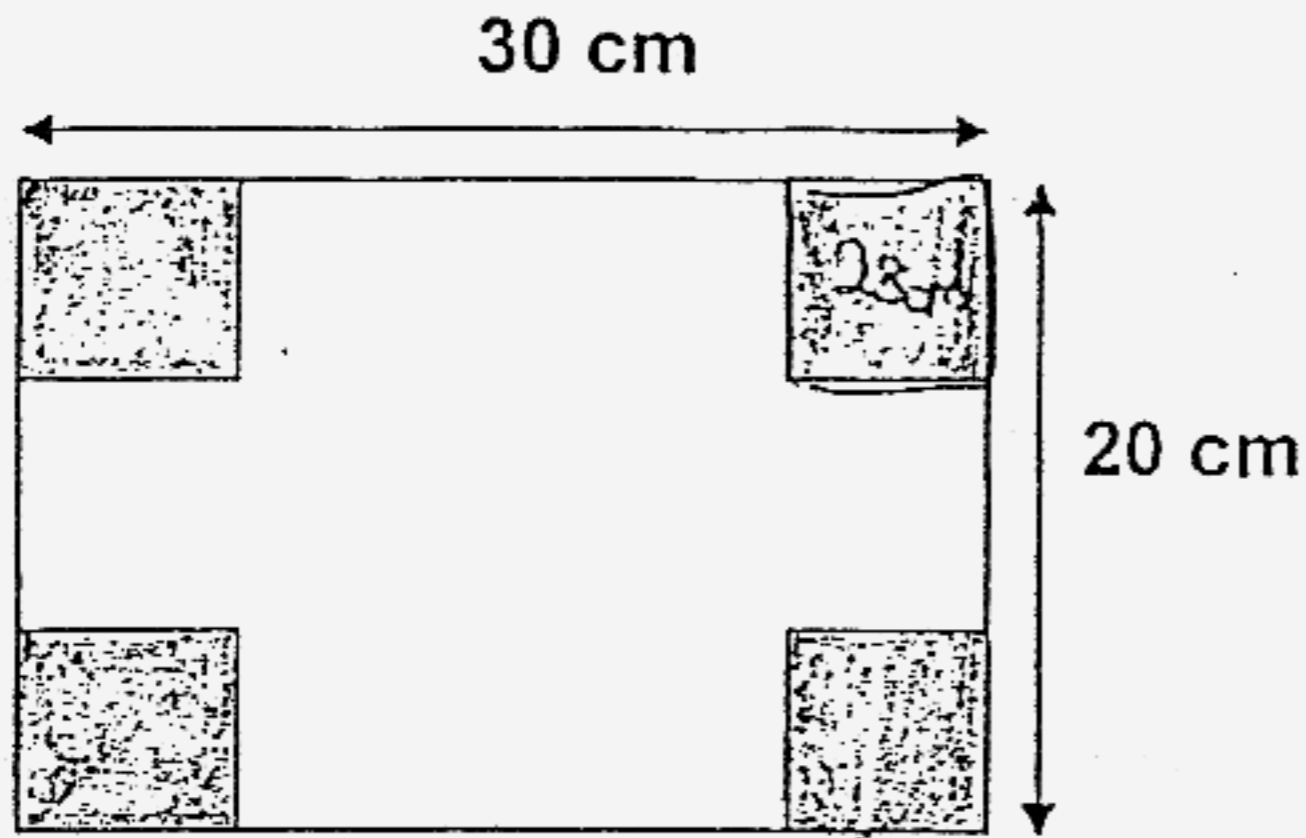
Answer: _____ [4]

37.   Jenny had 198 stickers and Ken had 74 stickers. Jenny gave Ken some stickers so that they have the same number of stickers. How many stickers did Jenny give to Ken?
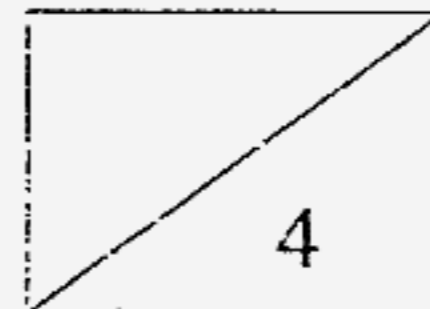
Answer: _____ [4]

8
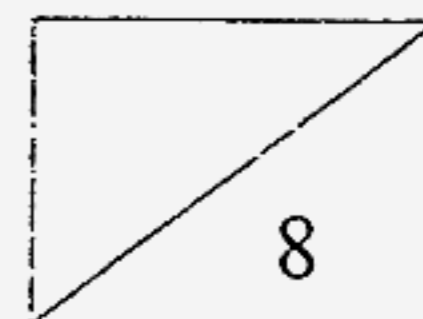
38. In the figure below, the perimeter of each shaded square is 28 cm. Find the **total area of the shaded part**.

(The figure is not drawn to scale.)
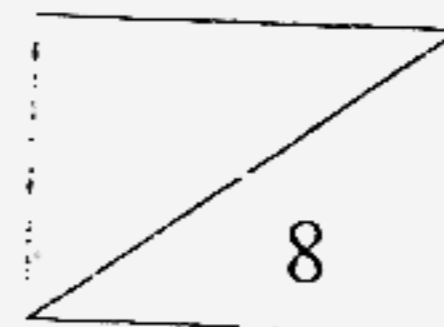
30 cm

20 cm

Answer: _____ [4]

39. A dining table set consists of 6 chairs and a table. The total cost of the whole dining set is $1 372. What is the cost of each chair if the table costs $382?

Answer: _____[4]

40. Wei Quan paid $252 for a watch, a radio and a calculator. The watch cost $18 more than the radio and the radio cost $12 more than the calculator. How much did the watch cost ?
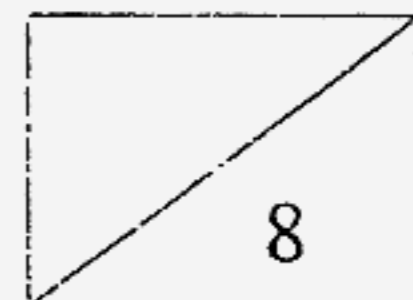
Answer: _____[4]

41. At a party, $\frac{3}{10}$ of the people were women. There were 18 fewer children than women and the number of men was twice the number of women. How many people were there altogether?

Answer: _____ [4]

42. Mrs Lee used 3 m of cloth to sew a dress. Mrs Tan used $\frac{1}{3}$ m less than Mrs Lee. How many metres of cloth did they use altogether?
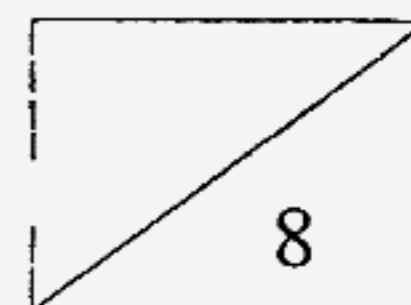
Answer: _____ [4]

8

43. Mary and her sister have $200 altogether. If their father gives Mary another $40, she will have as much money as her sister. How much money does Mary have at first?
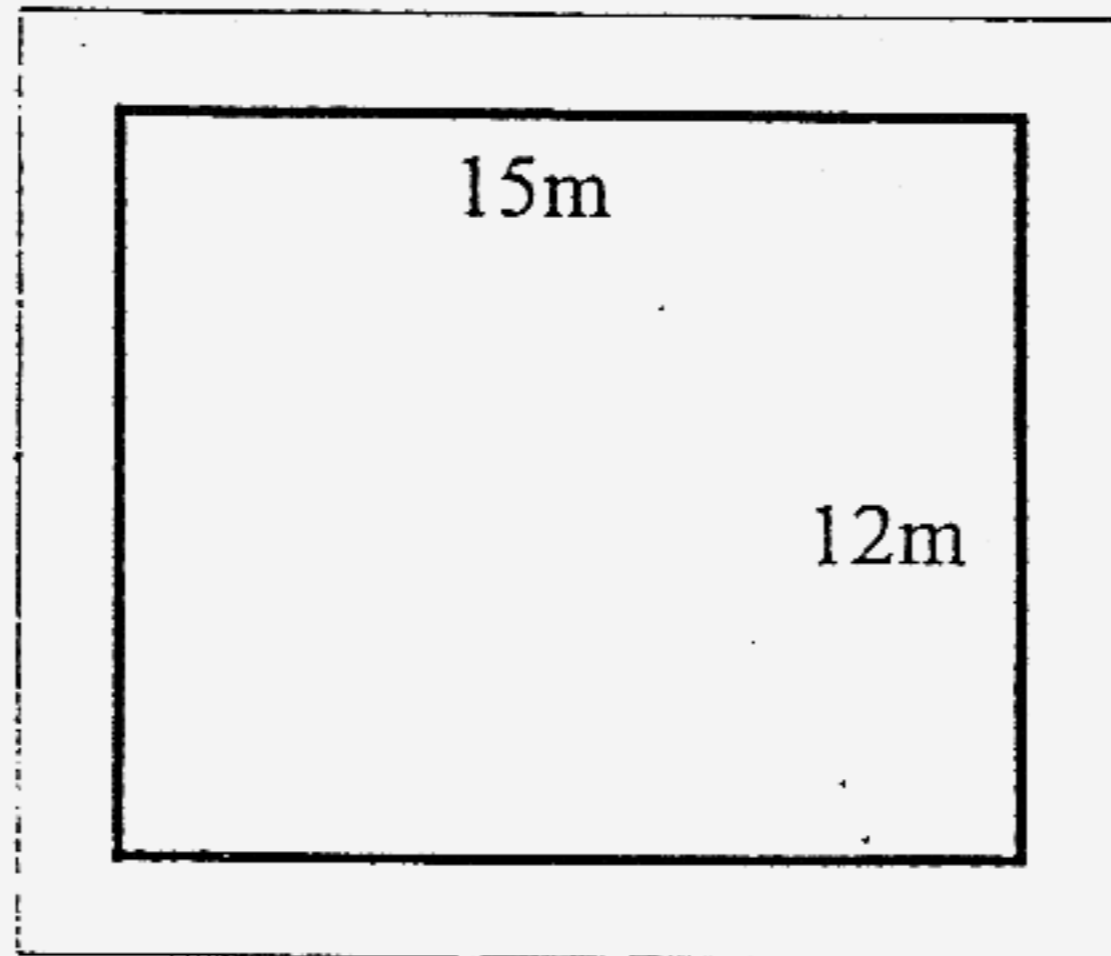
Answer: _____ [4]

44. A square and a rectangle have the same area. The perimeter of the square is 24 cm. Find the length of the rectangle if its breadth is 3cm.
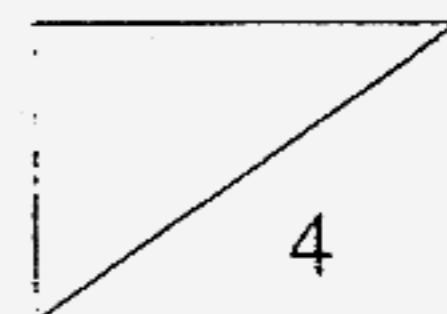
Answer: _____ [4]

8

45.

A rectangular swimming pool measures 15m by 12m. There is a concrete path 1m wide paved all around it.

a) Find the area of the path.

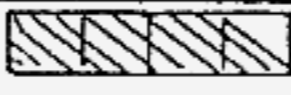b) If it costs $100 to tile a square metre of the path, how much it would cost to tile the whole path?

Answer: (a) _____ [2]

Answer: (b) _____ [2]

End-of-paper

Please check your work carefully.

1	3	6 – 4	11 – 2	16 – 46230	21 – 60
2	4	7 – 4	12 – 2	17 – 1563	22 – 60
3	2	8 – 3	13 – 1	18 – $3\frac{1}{4}$	23 – 128
4	4	9 – 2	14 – 3	19 – ▨▨	24 – 4
5	1	10 – 3	15 – 2	20 – 35	25 – 522

26	4800	31 – 4	36 – $500	41 – 90
27	120	32 – 46	37 – 62	42 – $5\frac{2}{3}$m
28	EF, AD	33 – 162	38 – 196cm²	43 – 880
29	BC, AD	34 – 30	39 – $165	44 – 12cm
30	69	35 – 10	40 – $100	45 – a)58m² b)$5800