AI TONG SCHOOL

2007
SEMESTRAL ASSESSMENT 2
PRIMARY 4

MATHEMATICS

DURATION : 1 h 45 min

DATE   : 25 OCT 2007

INSTRUCTIONS

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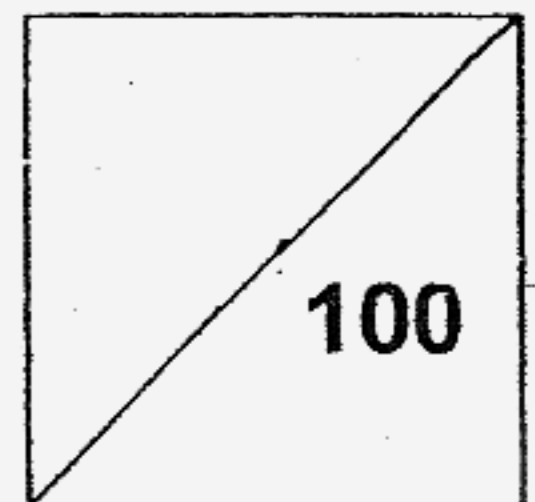Follow all instructions.
Answer all questions.

Name   : _____ (   )

Class   : Primary 4_____   Marks:

100

Parent's Signature   : _____

Date   : _____

Section A

Questions **1** to **10** carry 1 mark each. Questions **11** to **15** carry 2 marks each.
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)

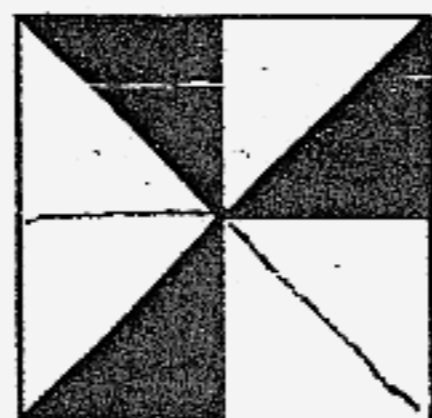1. $24\ 756 = 20\ 000 + 4000 + \boxed{} + 50 + 6$

What is the missing number in the box?

(1)   7
(2)   70
(3)   700
(4)   7000

2.   The common factor of 48 and 64 is _____.
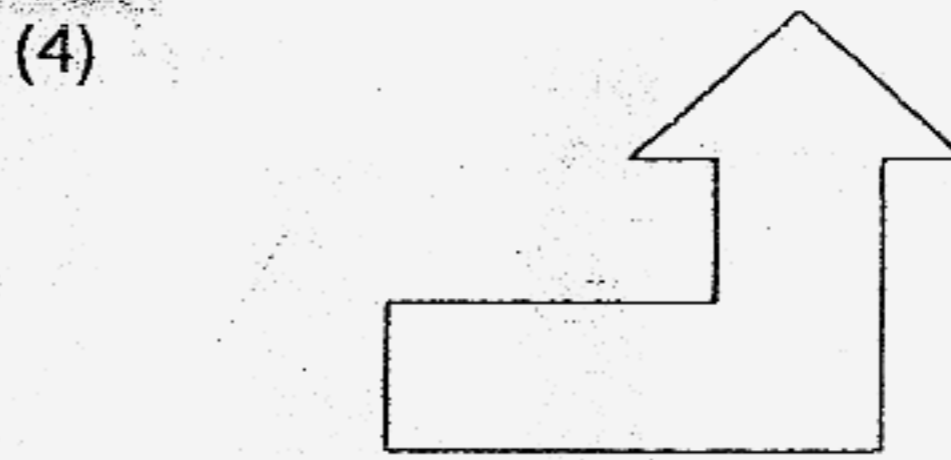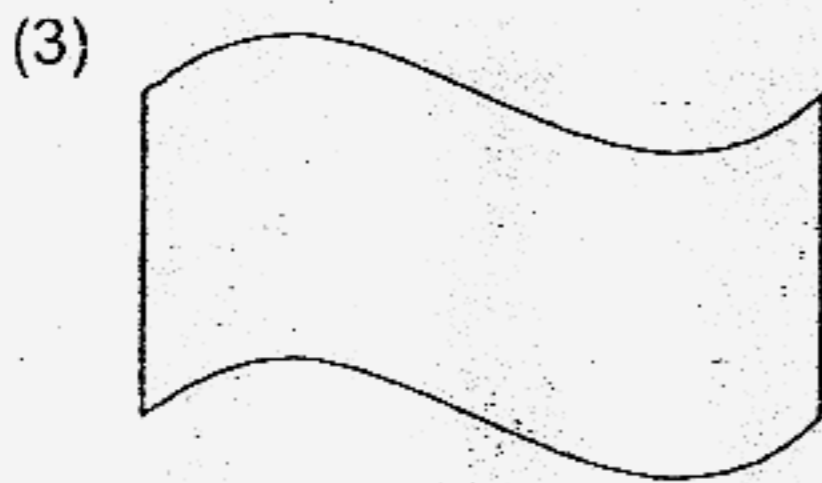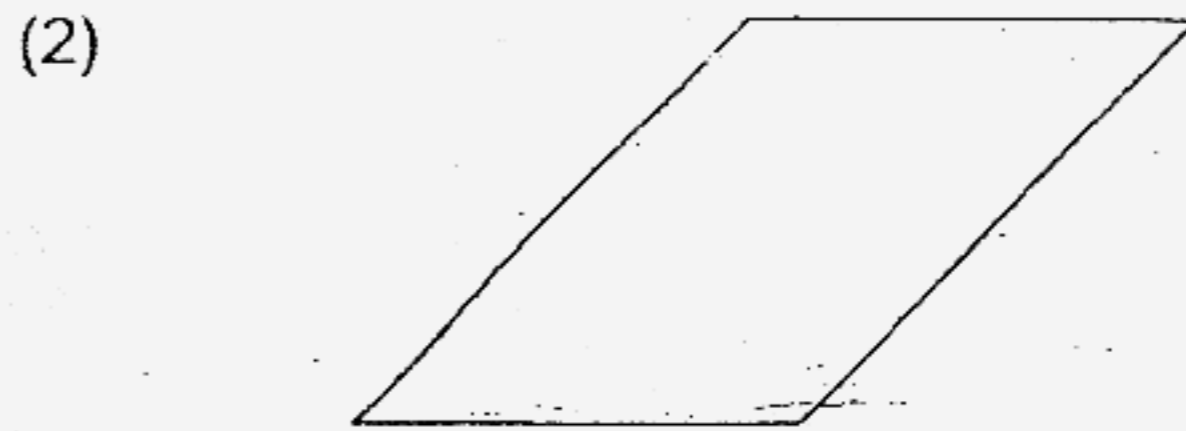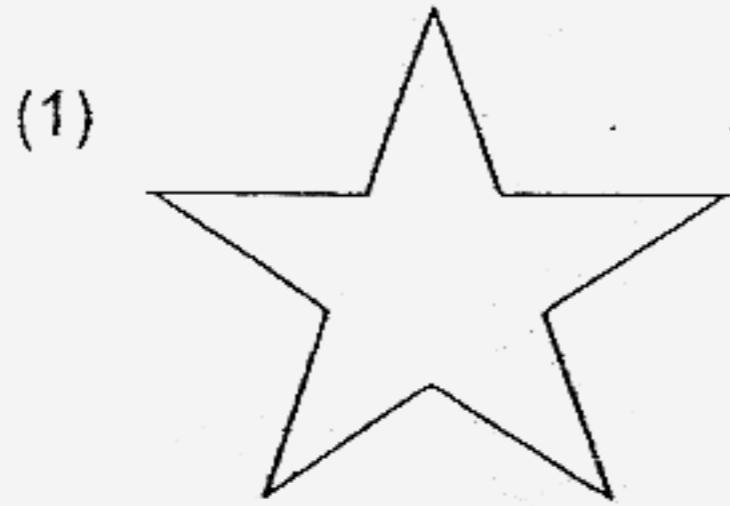
(1)   6

(2)   8

(3)   12

(4)   24

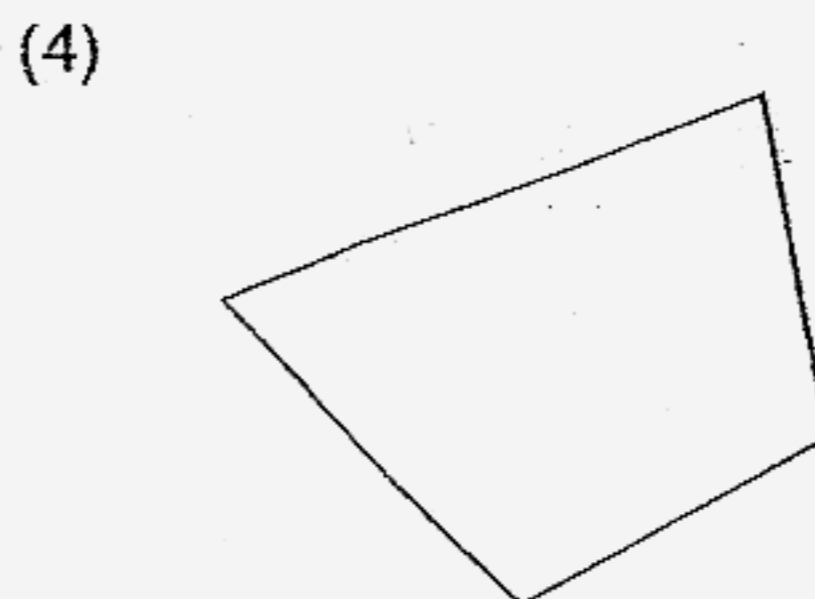3.   What fraction of the figure is shaded?
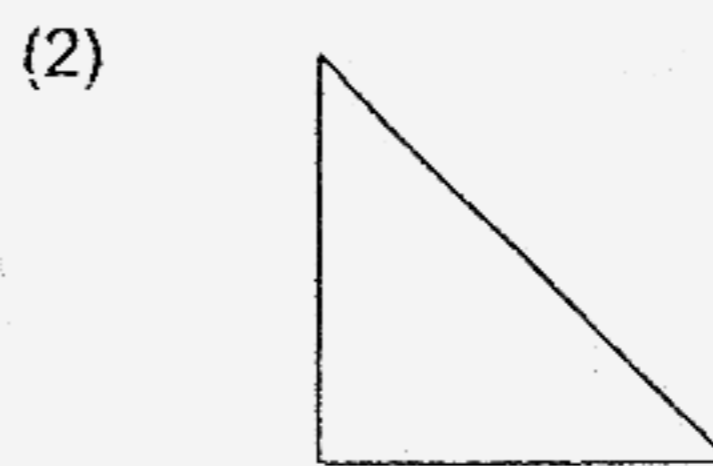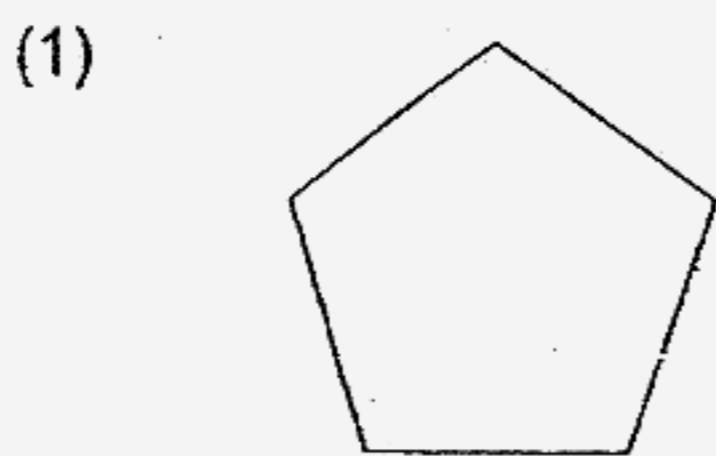

(1) $\dfrac{3}{4}$

(2) $\dfrac{3}{5}$

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

(4) $\dfrac{3}{8}$

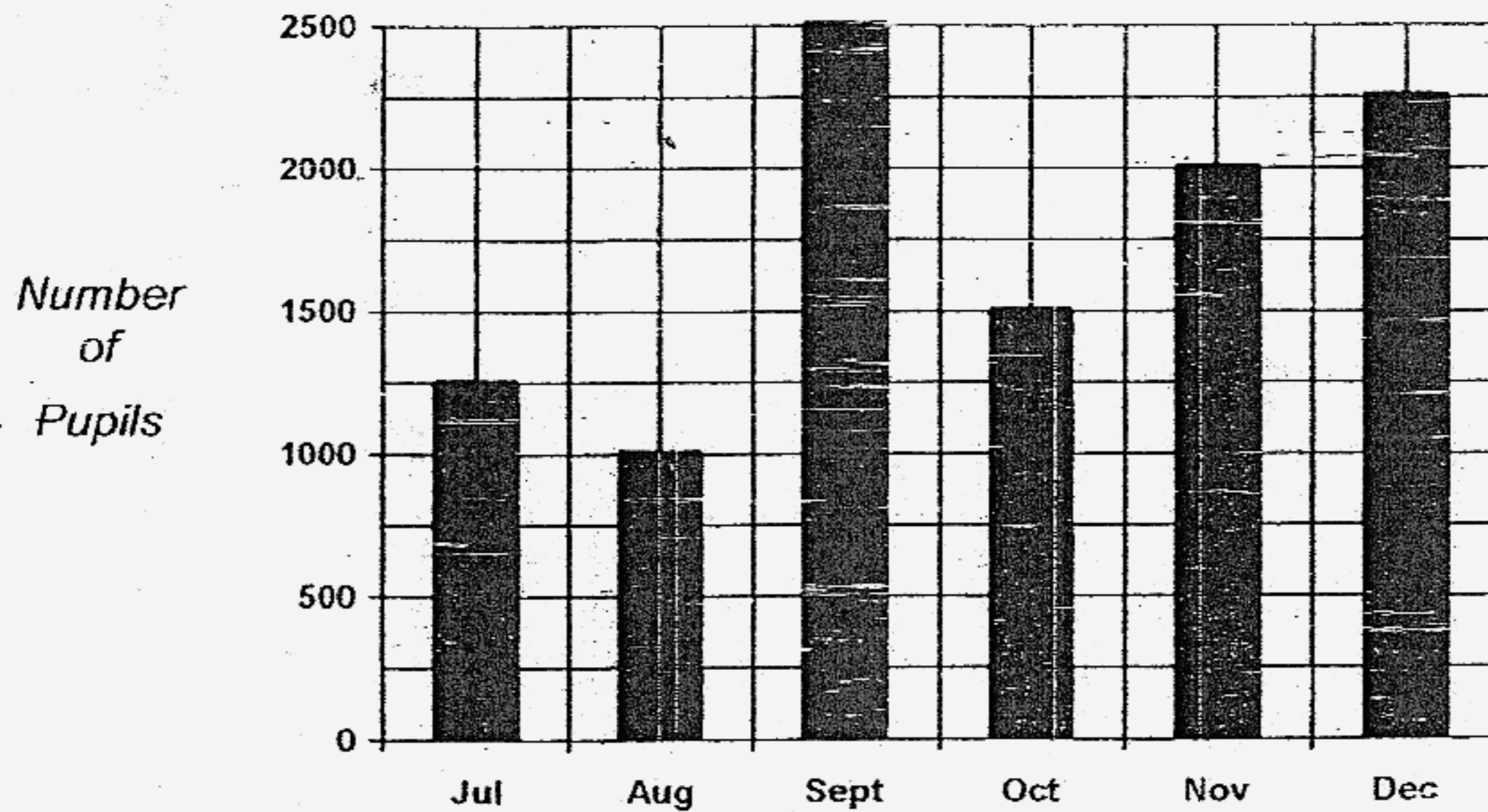4. Which figure below is a symmetrical figure?

(1)

(2)

(3)

(4)

5. Which one of the following figures has parallel lines?

(1)

(2)

(3)

(4)

2

The graph below shows the number of pupils who visited the Discovery Centre from July to December last year.

Use the graph below to answer questions 6 and 7.

Number of Visitors to Discovery Centre from July to December
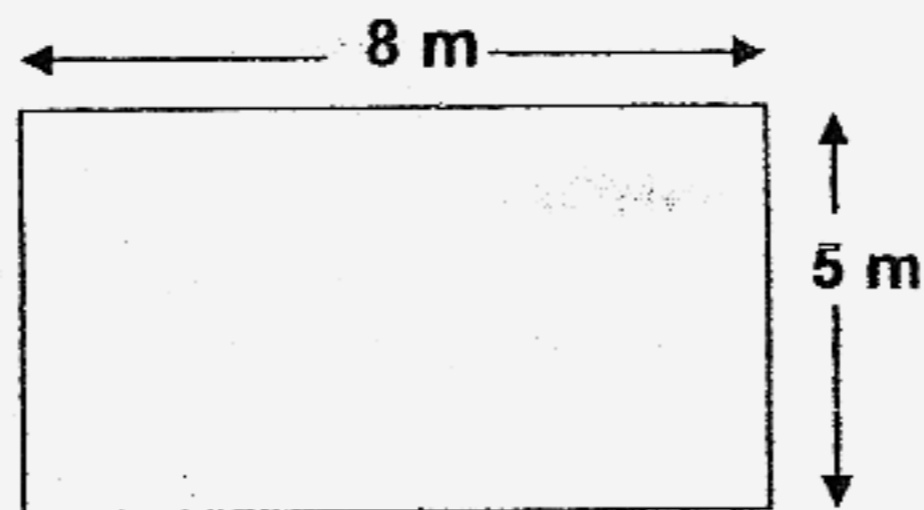

6. Which month had the greatest number of pupils?

    (1)   August

    (2)   September

    (3)   November

    (4)   December

7. How many more pupils visited the Discovery Centre in December than in August?

    (1)   1000

    (2)   1250

    (3)   1400
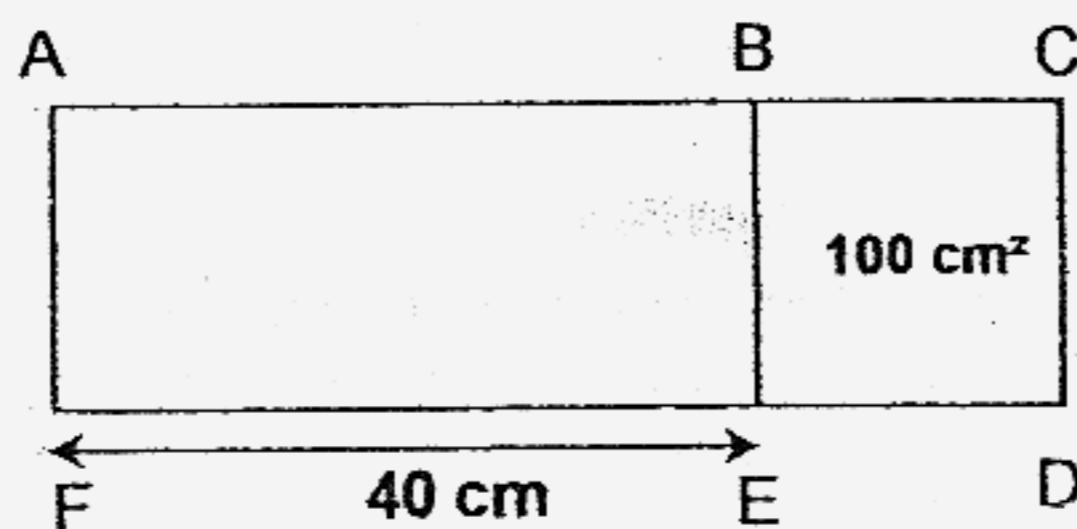
    (4)   3250

8. Express $7\frac{3}{5}$ as a decimal.

(1) 7.03

(2) 7.06

(3) 7.3

(4) 7.6

9. The figure shows a rectangle. What is its perimeter?
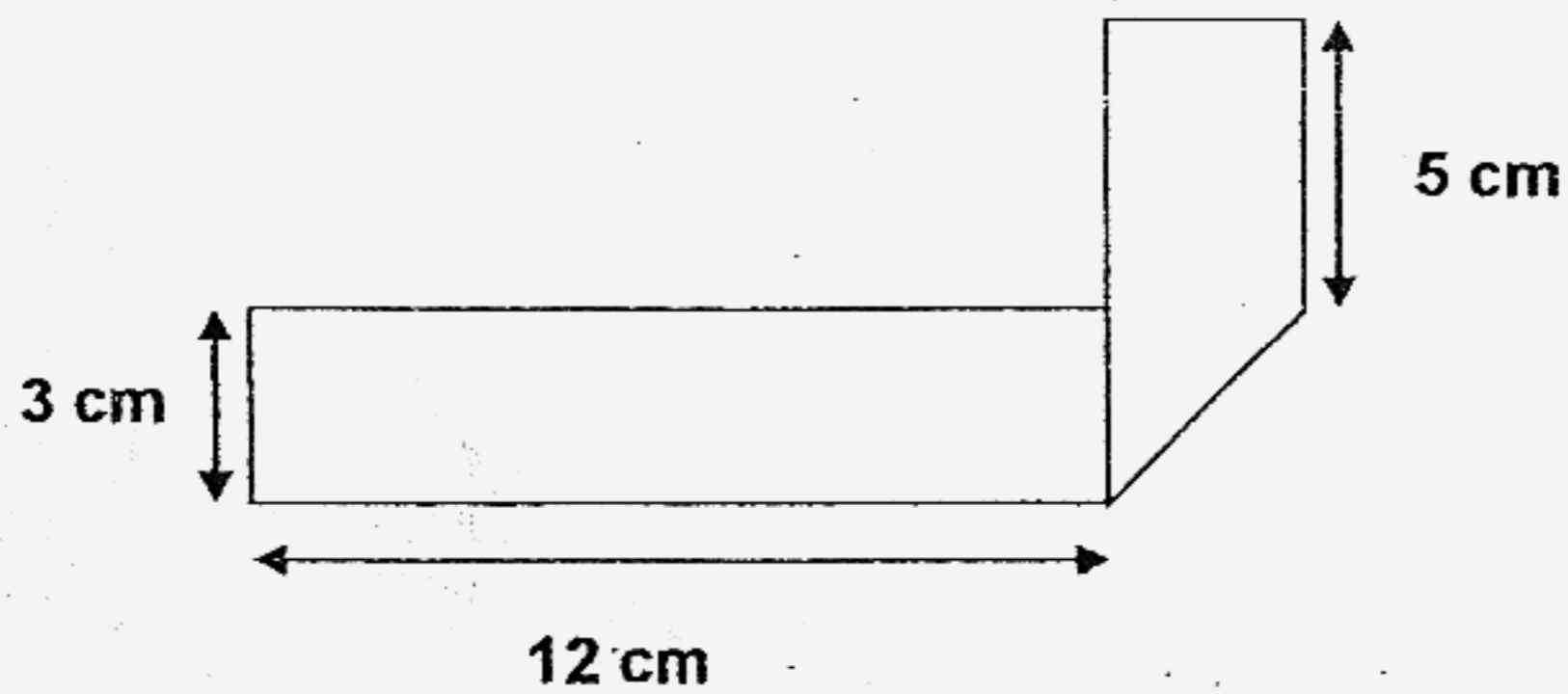

(1) 13 m

(2) 26 m

(3) 40 m

(4) 80 m

10. The area of square BCDE is 100 cm². Find the area of rectangle ABEF.

(1) 40 cm²

(2) 50 cm²

(3) 400 cm²

(4) 500 cm²

11. A rectangular piece of paper is folded to form the shape shown below.
    What is the area of the rectangular piece of paper when it is not folded?

   (1)   36 cm²

   (2)   51 cm²

   (3)   60 cm²

   (4)   69 cm²

12. The difference between two numbers is 26. If the bigger number is 3 times the smaller number, find the sum of the two numbers.

   (1)   13

   (2)   39

   (3)   52

   (4)   78

13. Tom had some mangoes at first. He bought another 85 mangoes.
    Then he packed all the mangoes into 14 bags of 16 mangoes each.
    How many mangoes did Tom have at first?

   (1)   115

   (2)   139

   (3)   224

   (4)   309

14. Miss Chan bought some pies. $\frac{2}{5}$ of them were chicken pies. The remaining 60 were fruit pies. How many pies did she buy altogether?

    (1)   20

    (2)   40

    (3)   80

    (4)   100

15. A bus left Singapore at 10 15 and reached Kuala Lumpur at 18 00 on the same day. How long was the journey in hours and minutes?

    (1)   4 h 15 min

    (2)   7 h 15 min

    (3)   7 h 45 min

    (4)   7 h 55 min

Section B

Questions **16** to **35** carry 2 marks each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.   (40 marks)

16.   Complete the number pattern.

3845, 3955, _____, 4175 , 4285

Ans: _____

17.   Find the value of $6 - 3\frac{4}{9}$.

Ans: _____

18.   Find the value of 243 x 56.
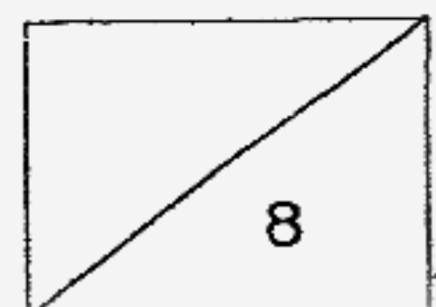
Ans: _____

19.

5 , 6 , 8

Using any two numbers in the box above, form the **largest two-digit number** which is <u>a multiple of 4.</u>

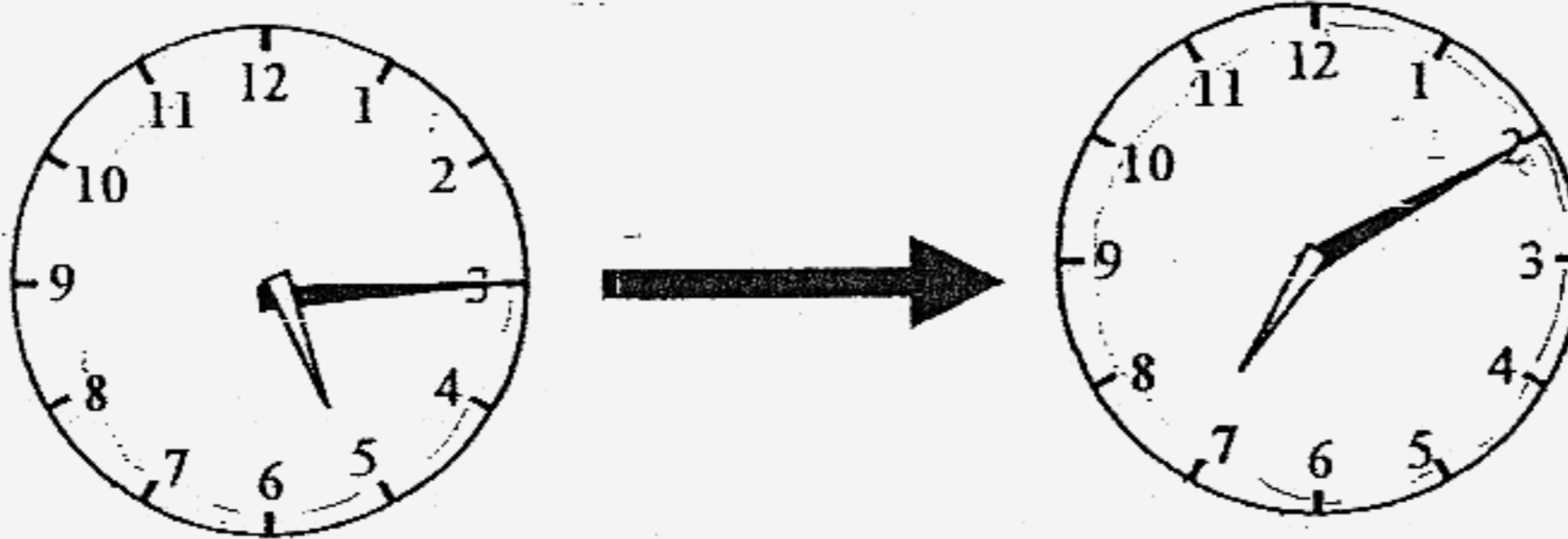Ans: _____

/8

20.   Margaret paid $108 for 6 teddy bears and 4 Barbie dolls.
      A teddy bear cost $3 more than a Barbie doll.

      Find the cost of a teddy bear.
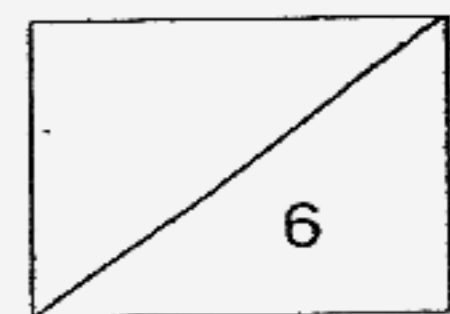
                                          Ans: $_____

21.   The clocks showed the starting and ending time I used to jog this <u>morning</u>. How
      long did I jog?

                                          Ans: _____h_____min

22.   Jason left his house at 15 35. He took 33 minutes to walk to Serangoon

      Community Club. At what time did he arrive at the community club?
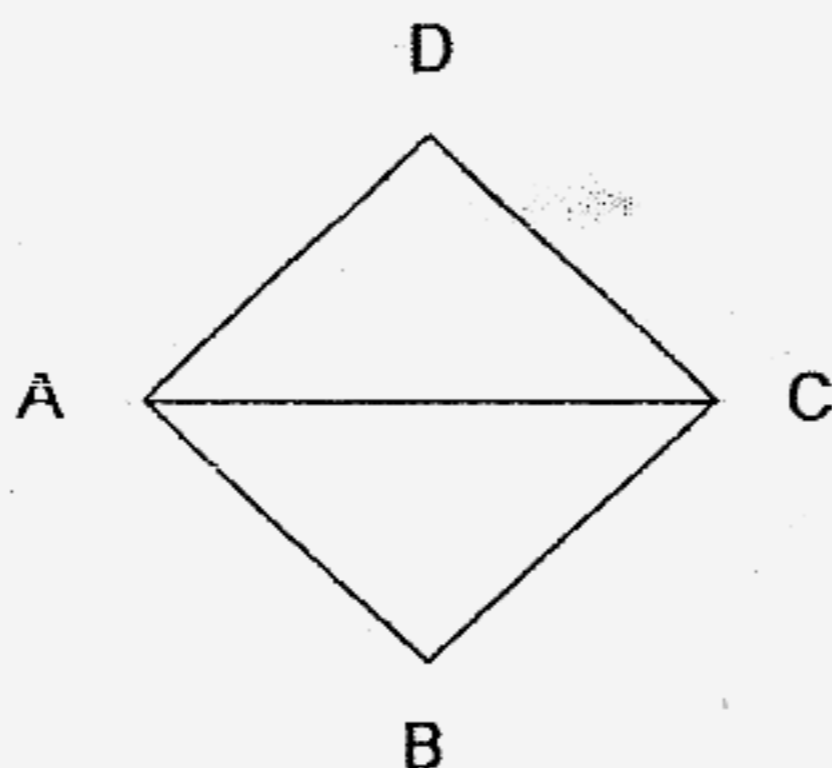
                                          Ans: _____p.m.

6

23. Mrs Lim covered $\frac{1}{2}$ of his journey by taxi, $\frac{3}{8}$ by train and the remaining journey by bus. What fraction of her journey was covered by bus?
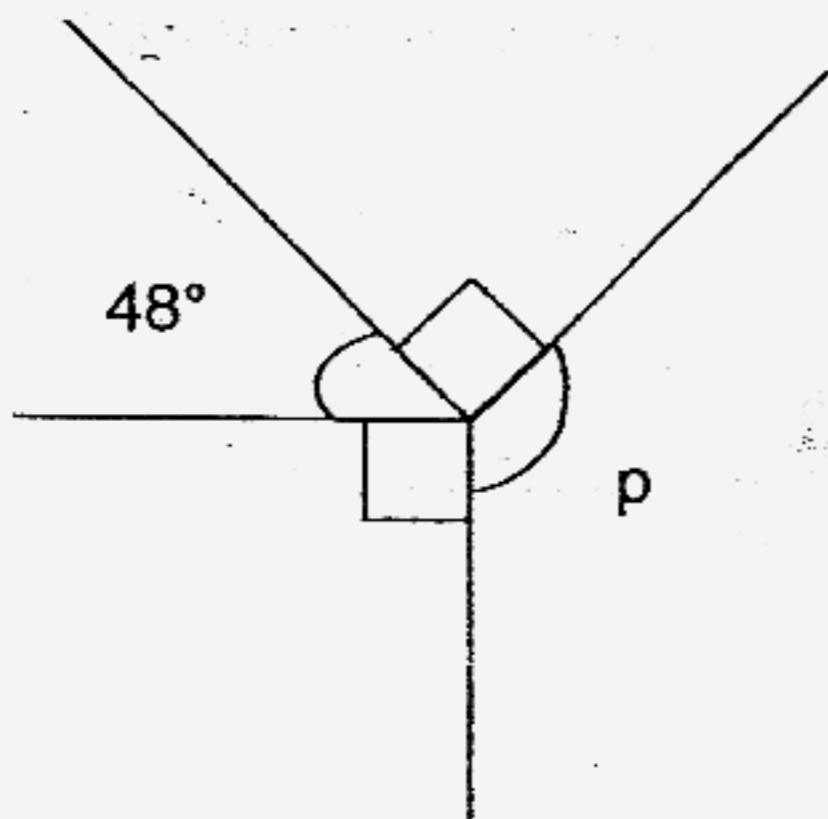
Ans: _____

24. In the figure below, ABCD is a square. Name 2 lines that are perpendicular to each other
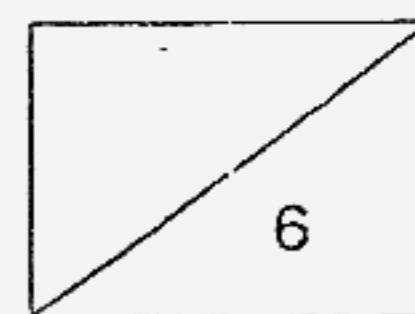

Ans: _____⊥_____

25. The figure below is not drawn to scale. Find ∠ p.
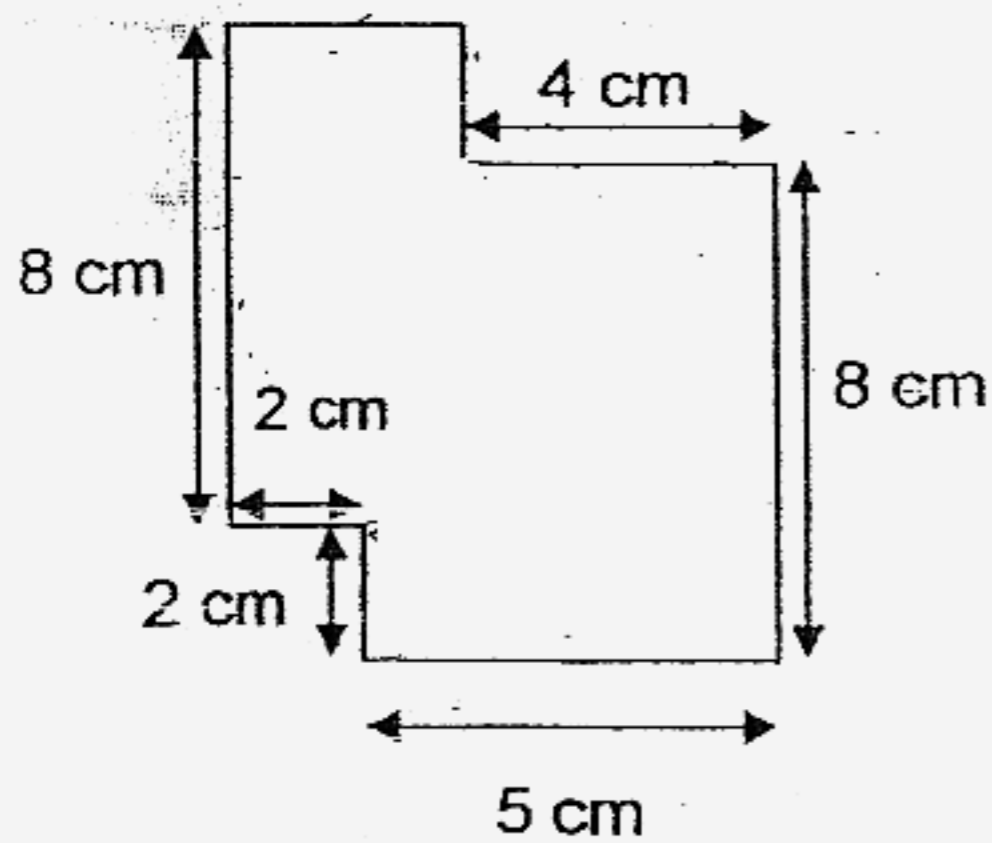

Ans: _____

6

26. A rectangular park measures 60 m by 42 m.

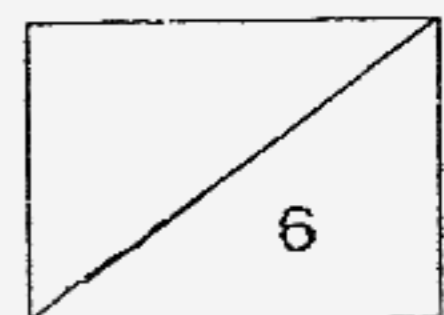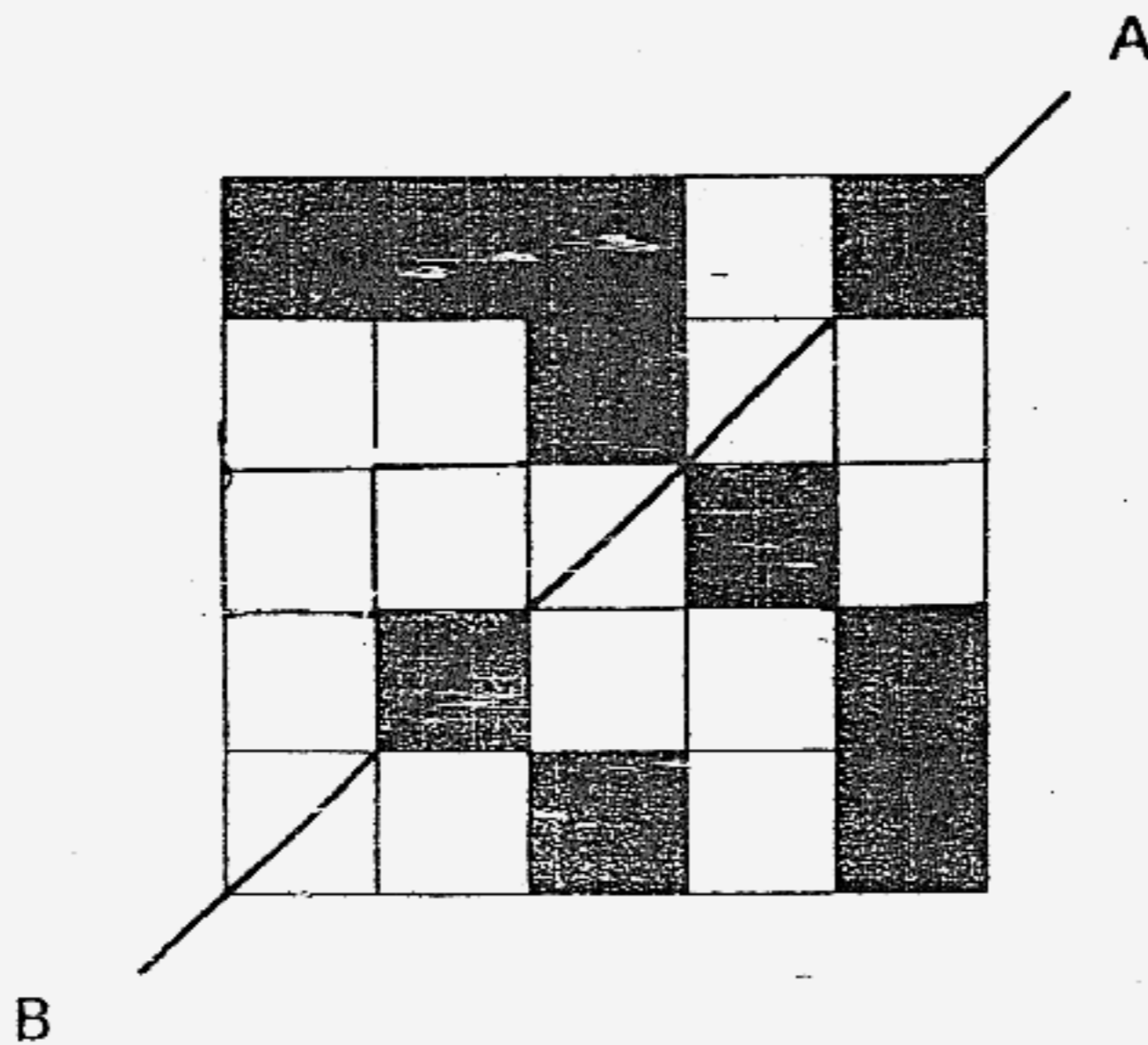What is the cost of putting up a fence around it if 1 m of fencing costs $8?

Ans :$_____

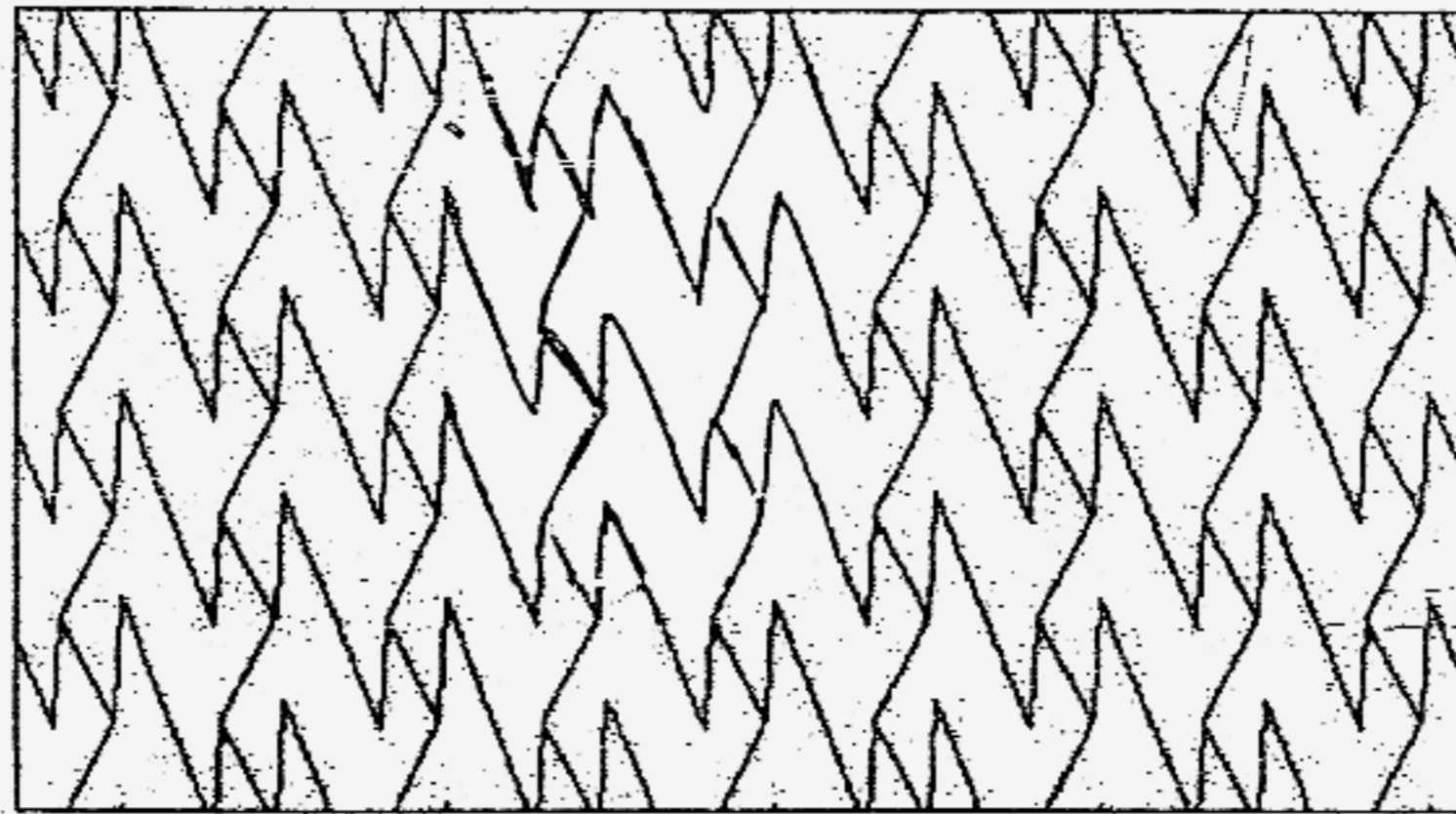27. The following figure is not drawn to scale. Find the area of the composite figure.

Ans:_____cm²

28. Shade **two** more unit squares to make the figure below symmetrical about the line AB.

6

29. The pattern in the box shows part of a tessellation.
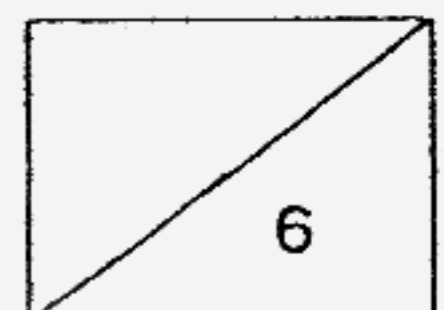
Shade the unit shape in the tessellation.

30. Mabel cuts a string of 25 m long into 8 equal pieces.

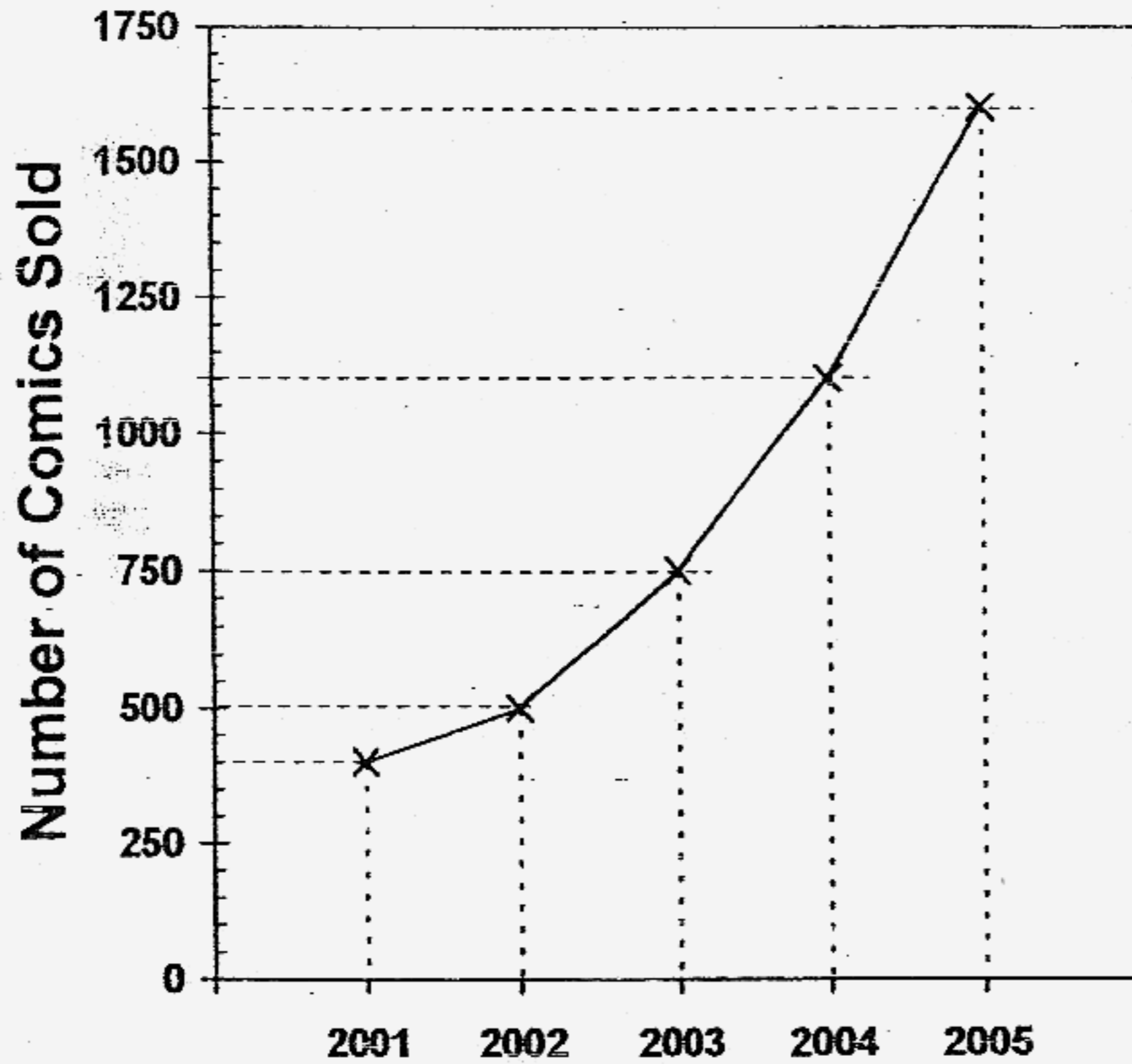Find the length of each piece. Correct your answer to 2 decimal places.

Ans :_____m

31. A box weighs 5 times as much as a bag. The difference in their mass is 10.4 kg. What is the mass of the box?

Ans :_____kg

The line graph shows the number of comics sold in a bookshop each year from 2001 to 2005. Use the graph to answer questions 32 and 33.
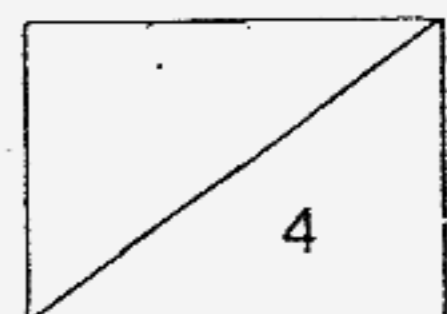

32.   What was the difference in number of comics sold between 2001 and 2004?

Ans :_____comics

33.   The greatest increase in the number of comics sold is between which 2 years?

Ans: Between_____ and _____.
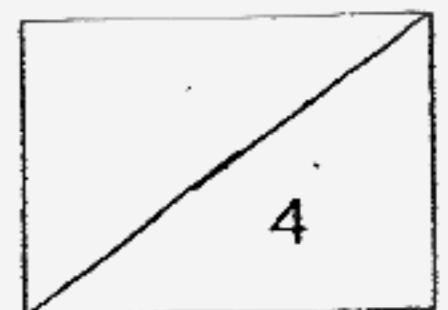
4

34. A tank is $\frac{5}{8}$ full. It contains 20 litres of water. What is the capacity of the tank?

Ans: _____ ℓ

35. Ben has the same number of 20-cent and 50-cent coins.
Their total value is $4.90. How many 50-cent coins does he have?

Ans : _____

4

Section C

Questions **36** to **45** carry 4 marks each. Show your working clearly in the space provided below each question and write your answers in the spaces provided.

(40 marks)

36. James bought **8 crates** of peaches. He repacked the peaches into 35 baskets with 64 peaches in each basket and 16 peaches were left over.
If each **crate** had an equal number of peaches, how many peaches were there in each crate?

Ans:_____ [4]

37. Ray has 4 times as many picture cards as David.
Charles has half of what Ray has.
If Ray and David have 245 picture cards altogether, how many picture cards does Charles have?

Ans:_____ [4]

8

P4 Maths SA2 2007   14
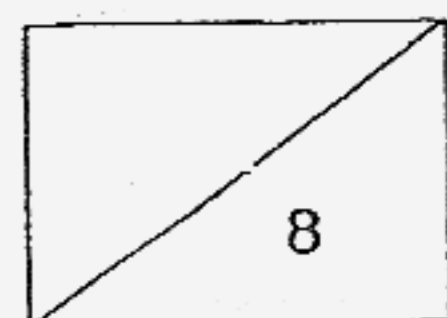
38. In a box, there are yellow, red and green beads.
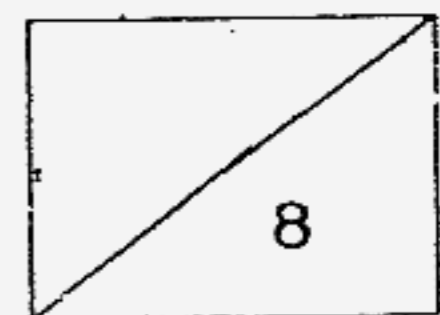
$\frac{1}{3}$ of the beads in the box are yellow.

There are 30 more red beads than yellow beads.

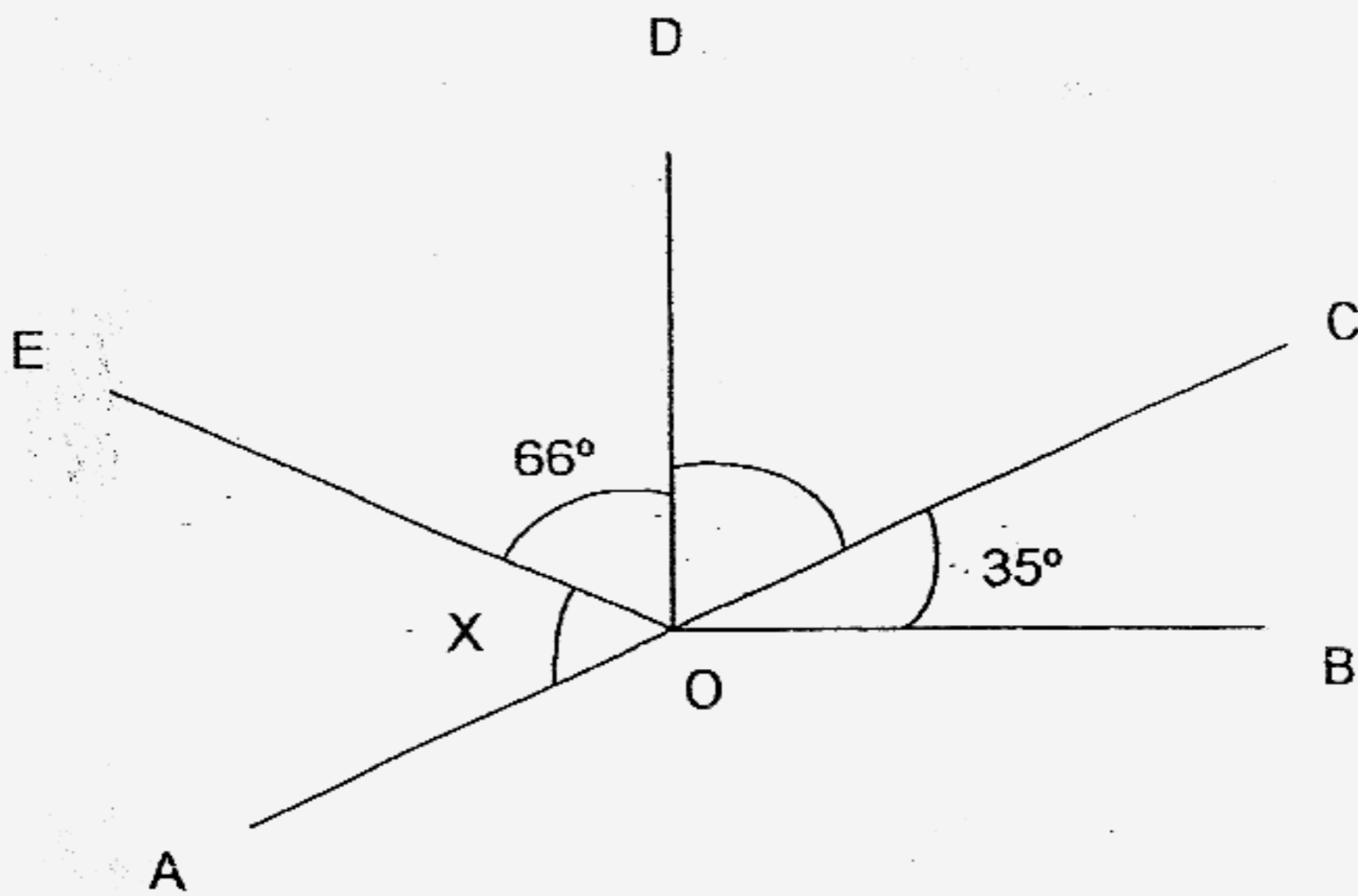The rest of the 15 beads are green. How many beads are there altogether?

Ans:_____[4]

39. Janice spent $28 on Friday and $46 on Saturday. She then had $\frac{5}{7}$ of her money
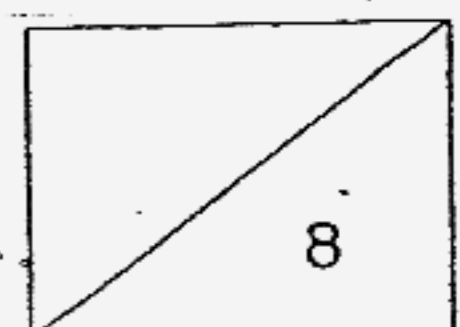
left. How much money had Janice at first?

Ans:_____[4]

8

40. The figure below is not drawn to scale. AOC is a straight line.
    ∠DOB is a right angle. Find ∠x.

Ans:_____ [4]

41. Gopal bought 2 similar ties and 3 similar belts for $142.85.
    If each tie cost $14.80, what was the cost of each belt?

Ans:_____ [4]

8

42. Ken packed 3 kg of sugar into a large packet and three small packets.
The large packet contained twice as much sugar as each small packet.
Find the mass of sugar in the large packet in **kg**.

Ans : _____ [4]

43. Eddie started on his project at 9.30 a.m. He stopped to take a half-hour break at noon for his lunch. He finished his project at 5.15 p.m.

How long did he take to do his project?
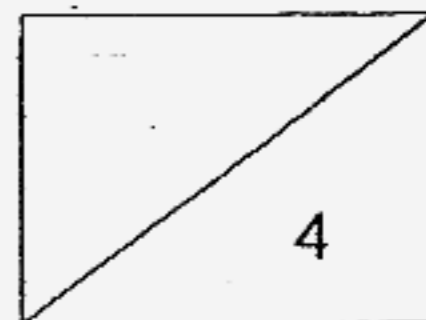
Ans : _____ [4]

8
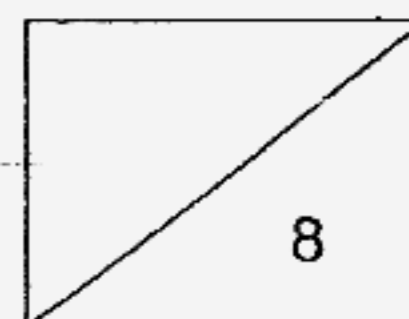
44. A rectangular floor is 9 m long and 8 m wide. A square rug of length 5 m is laid on the floor as shown in the figure below.

(a) Find the area of the floor **not covered** by the rug.

(b) Find the cost of carpeting the **uncovered** floor if 1 m² of rug costs $50.

9 m

8 m

RUG

5 m
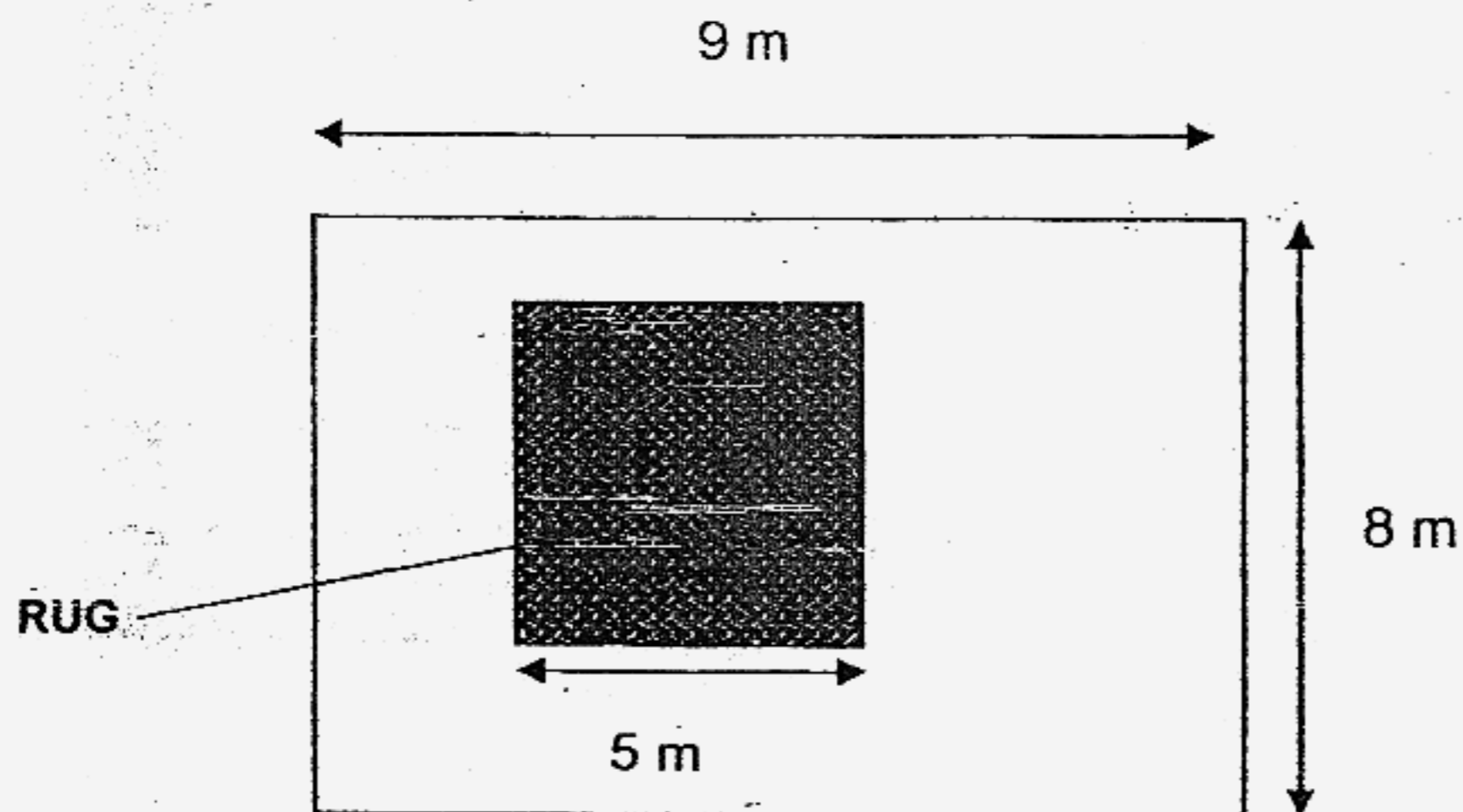
Ans: (a) _____ [3]

(b) _____ [1]

45. Jamil is making patterns using stickers and toothpicks.

He uses 4 toothpicks to surround a sticker, 6 toothpicks to surround 2 stickers and so on. Study the pattern carefully.

(a) Complete the table below.

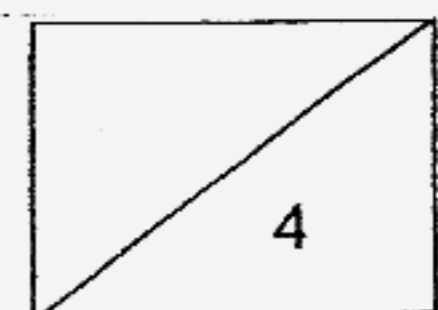| Number of stickers	Number of toothpicks	
1	4	
2	6	
3	8	
4	10	
8		[1]
10	22	
50		[1]

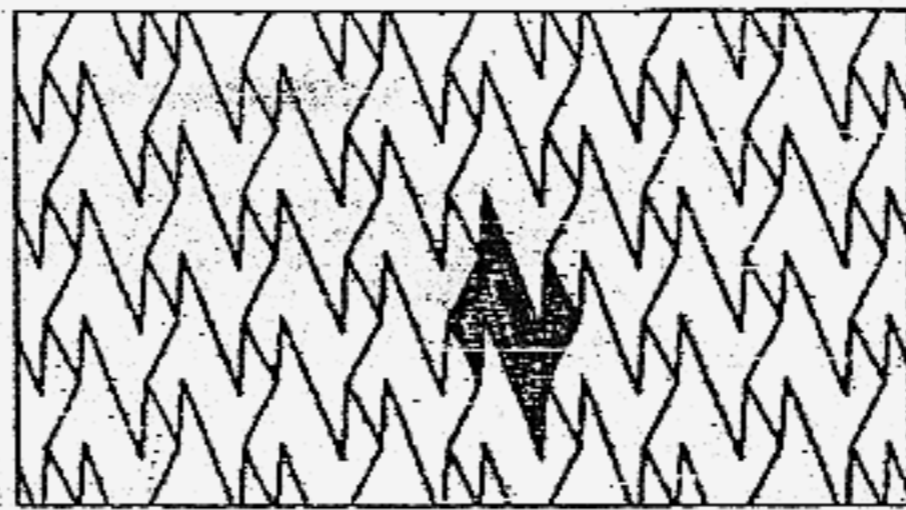(b) How many stickers does Jamil need if he uses 162 toothpicks?

Ans:_____ [2]

End-of-paper

Please check your work carefully

4

AI TONG PRIMARY SCHOOL - PRIMARY 4 MATHEMATICS 2007
SEMESTRAL ASSESSMENT (2)

1. 3
2. 2
3. 4
4. 1
5. 3
6. 2
7. 2
8. 4
9. 2
10. 3
11. 3
12. 3
13. 2
14. 4
15. 3
16. 4065
17. 2/9
18. 13608
19. 68
20. $12
21. 1 h 55 min
22. 4.08 p.m
23. 1/8
24. AB⊥BC
25. 132°
26. 1632
27. 58cm2
28.

29)

30)4.125
31)13kg
32)700
33)2004 and 2005
34)32
35)7
36)35x64=2240
    2240+16=2256
    2256÷8=282
    There were 282 peaches altogether

37)98

38)67.5

39)$259
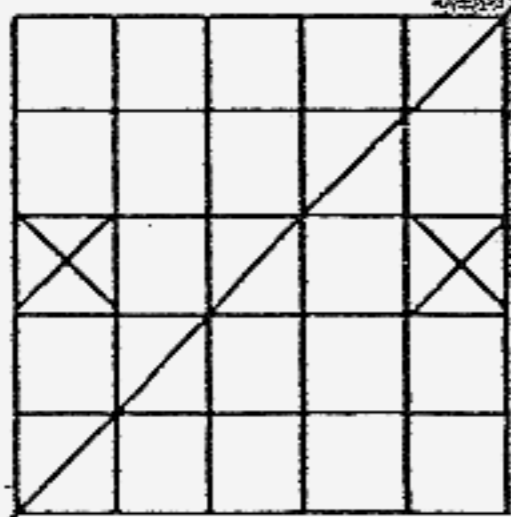
40) 90° −35° =55°

    180° −55° =125°

    125° −66° =59°

    ∠X is 59°

41) $14.80x2=$29.60

    $142.85−$29.60=$113.25

    $113.25÷3=$37.75

    The cost of each belt is $37.75

42) 5 units=3.0kg

    1 unit =3÷5=0.6kg

    2 units=0.6x2=1.2kg

43) 17h15min−9h30min=7h15min

    7h45min−30min=7h15min

44) a) 9x8=72

    5x5=25

    72−25=47

    The area of the floor is 47m2

   b) 47x50=$2350

    The cost of carpeting the uncovered

    floor is $2350

45) a) 18,102

   b) 162−2=160

    160÷2=80

    Jamil need 160 stickers.