ANGLO-CHINESE SCHOOL
(PRIMARY)

END-OF-YEAR EXAMINATION 2006
MATHEMATICS

Name: _____ (   )

Class: Primary 4____

Date: 31 October 2006

Duration of paper: 1 hr 45 mins

Nos	Contents	Marks	Marks Obtained
A	Multiple Choice Questions	20	
B	Short Answers	40	
C	Problem Sums	40	
	Total Marks	100	
	Parent's signature		

THIS BOOKLET CONTAINS 17 PAGES.

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

Section A (20 marks)

Questions 1 to 10 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Choose the correct answer and shade the corresponding oval (1, 2, 3, or 4) on the Optical Answer Sheet. All diagrams are not drawn to scale unless otherwise stated.

1. In 12 365, the 3 stands for _____.

    (1)   3 ones
    (2)   30 tens
    (3)   3 thousands
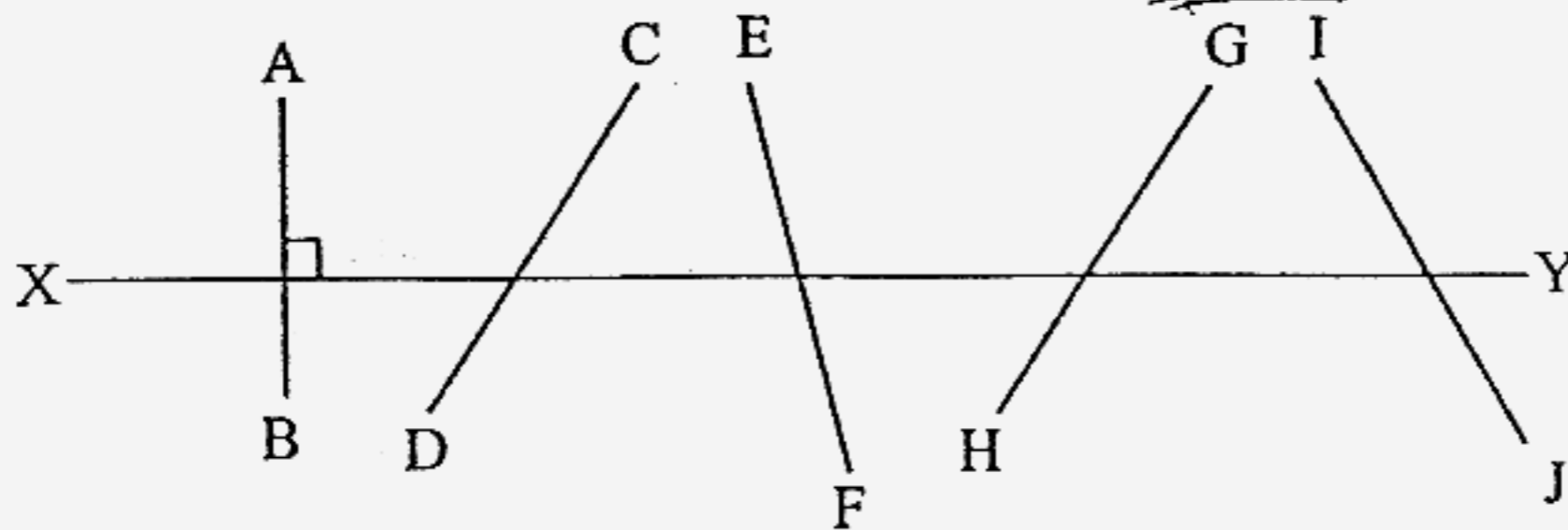   (4)   30 hundreds

2. The product of 86 and 405 is _____.

    (1)   34 030
    (2)   34 400
    (3)   34 800
    (4)   34 830

3. 4 048 = [ ] + 40 + 8. The [ ] stands for _____.

    (1)   40
    (2)   400
    (3)   480
    (4)   4000

4. In the following figure, name a pair of lines that are parallel.

(1) CD and GH

(2) EF and IJ

(3) AB and XY

(4) AB and IJ

5. $\frac{4}{5}$ of the children in an Art Club are girls. If there are 6 boys, how many children are there?

(1) 12

(2) 24

(3) 30

(4) 36

6. $\frac{33}{7}$ expressed as a mixed number is _____.

(1) $3\frac{3}{7}$

(2) $4\frac{5}{7}$

(3) $5\frac{4}{7}$

(4) $7\frac{5}{7}$

7. The perimeter of a rectangle is 42 cm.
   If the length is 12 cm, What is the area of the rectangle?

   (1)   9 cm²

   (2)   18 cm²

   (3)   54 cm²
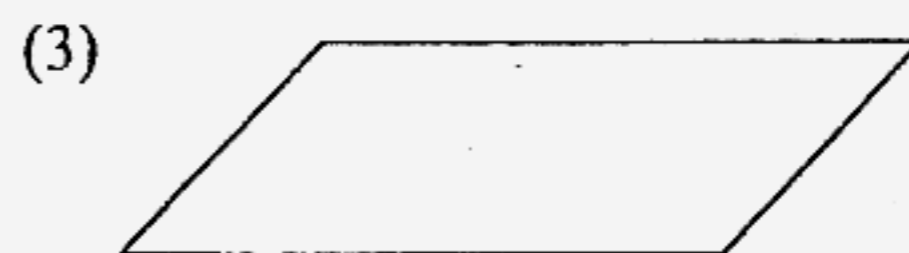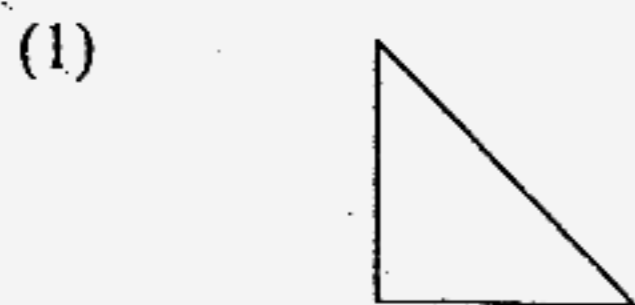
   (4)   108 cm²

8. How many hundredths are there 1.2?

   (1)   0

   (2)   12

   (3)   20

   (4)   120

9. When rounded off to the nearest dollar, Rose has $15.
   How much money does Rose have?

   (1) $14.49

   (2) $14.51

   (3) $15.50

   (4) $15.99

10. Which figure has only two lines of symmetry?

   (1)   (3)

   (2)   (4)

Section B (40 marks)

Questions 11 to 30 carry 2 marks each. Write your answers in the spaces provided. Give your answers in the units stated. All diagrams are not drawn to scale unless otherwise stated. All answers must be expressed in the simplest form.
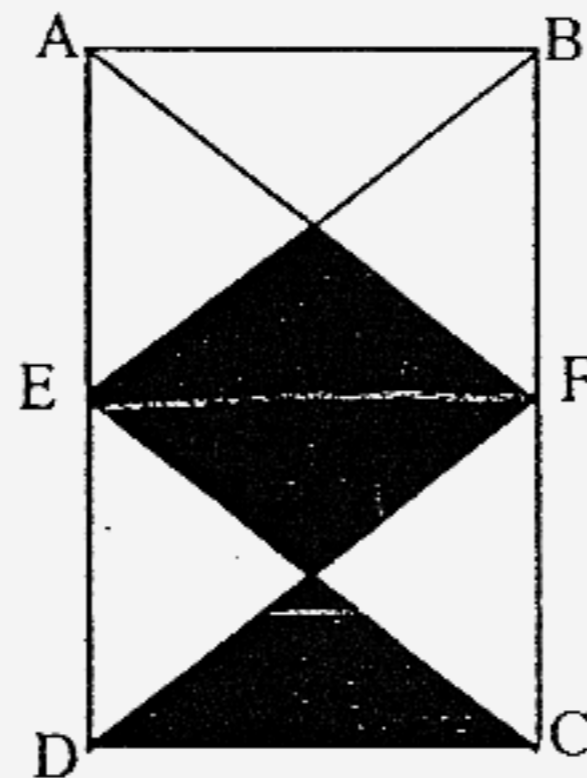
11. Subtract 4 521 from 18 456. In the answer, the digit _____ is in the <u>thousands</u> place.

Answer : _____

12. Find the sum of all the factors of 25.

Answer : _____

13. ABCD is a <u>rectangle.</u> E and F are midpoints AD and BC respectively. What fraction of the rectangle is <u>not</u> shaded?

Answer : _____

14. Bala scored 34 marks more than Jason in a Science test. Jason's score was $\frac{1}{2}$ of Bala's score. What was Bala's score?
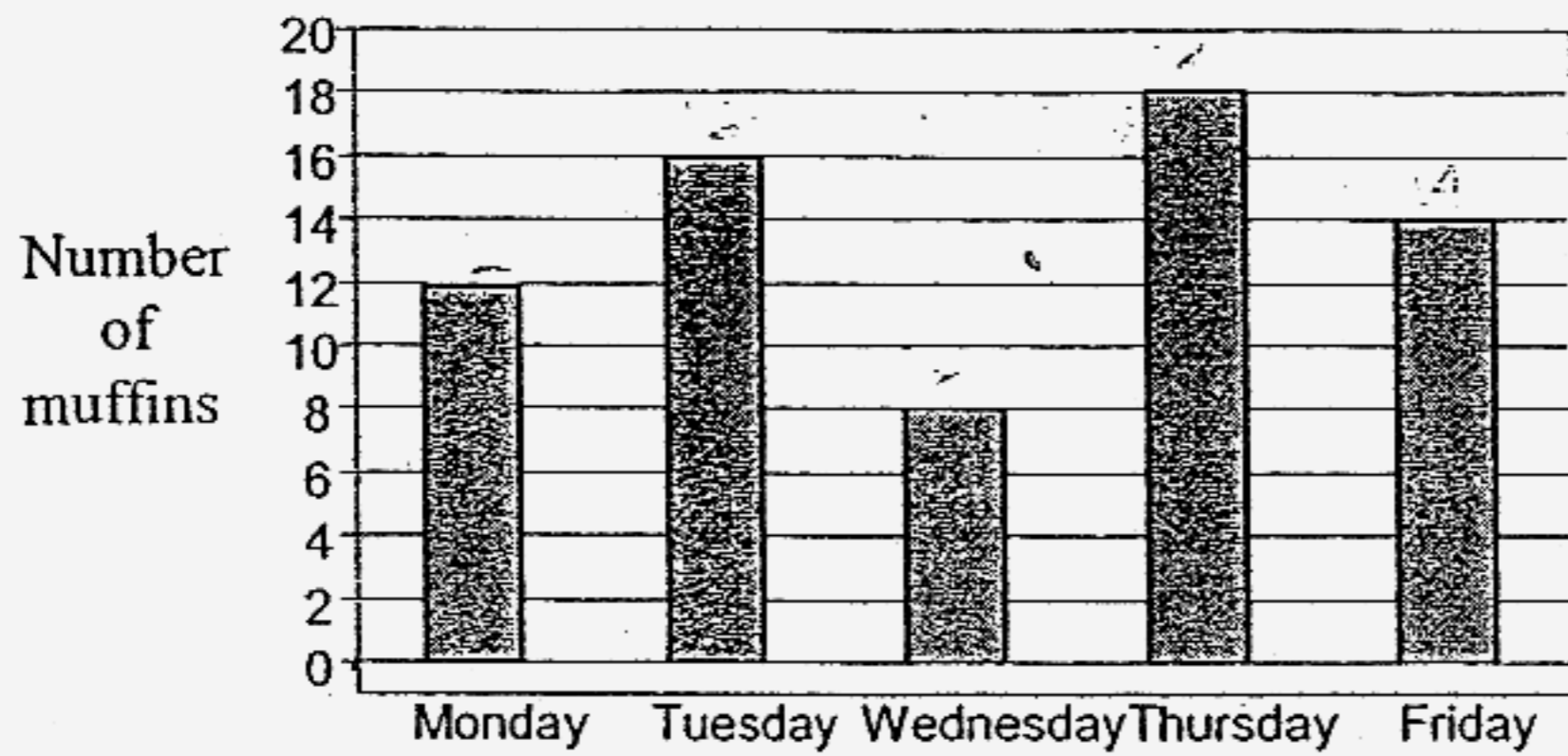
Answer : _____

15. The table below shows the amount of money saved by five boys.

Name	Amount of Money
John	$2.50
Carl	$3.15
Alex	?
Jeremy	$1.50
Harry	$2.60
Total	$12.20

How much money does Alex have? (Round off your answer to the nearest dollar)

Answer : _____

16. The graph below shows the number of muffins baked by Mrs. Lee on each of the weekday. Study the bar graph carefully and answer questions 16 (a) and 16 (b).
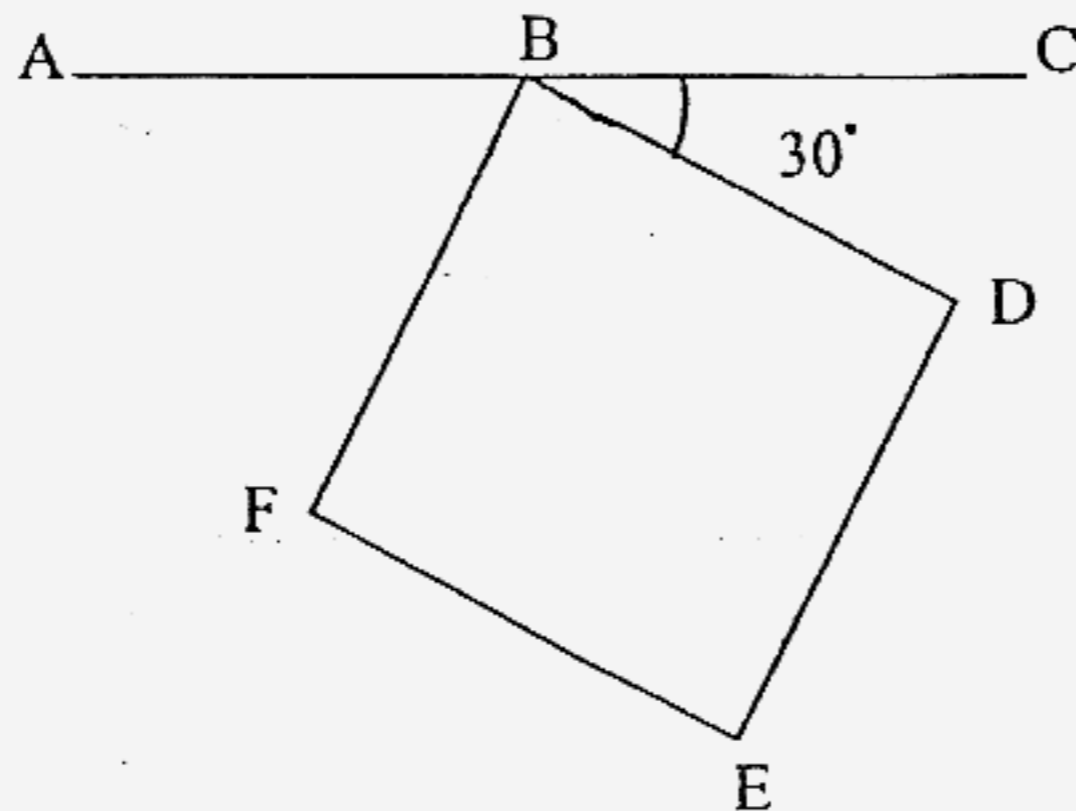

(a) Find the total number of muffins baked in the five days.
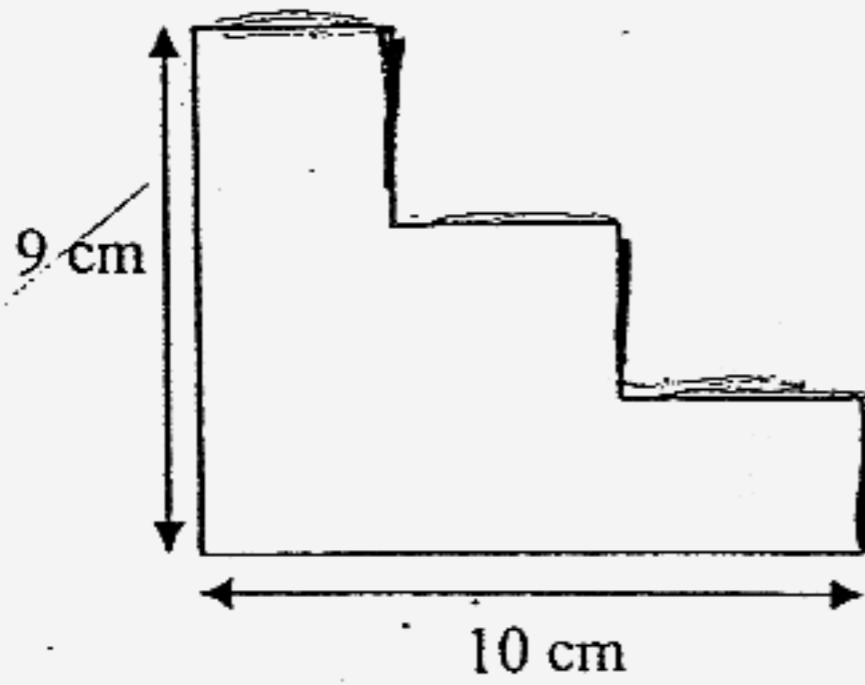(b) On which days were there fewer than 14 muffins baked?

Answer : (a) _____

(b) _____ and _____

17. In the figure below, not drawn to scale, ABC is a straight line and BDEF is a square. Find ∠ ABF.

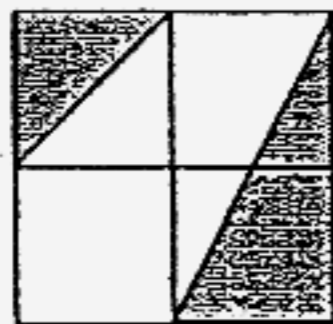Answer : _____

18. Find the perimeter of the composite figure.

9 cm

10 cm

Answer : _____

19. The figure is made up of 4 equal squares. The side of each square is 2 cm. What is the area of the shaded part of the figure?

Answer : _____

20. What is the value of 18 tens, 19 tenths and 25 thousandths?

Answer : _____

7

21.   2.5 of a number is 35. What is the number?

Answer : _____

22.   The sum of two decimals is 5.8 The difference of the two decimals is 1.2. What is the value of the smaller decimal?

Answer : _____

23.   One loaf of bread costs $1.95. How many 5-dollar notes does Mrs Lee need in order to buy 5 loaves of bread?
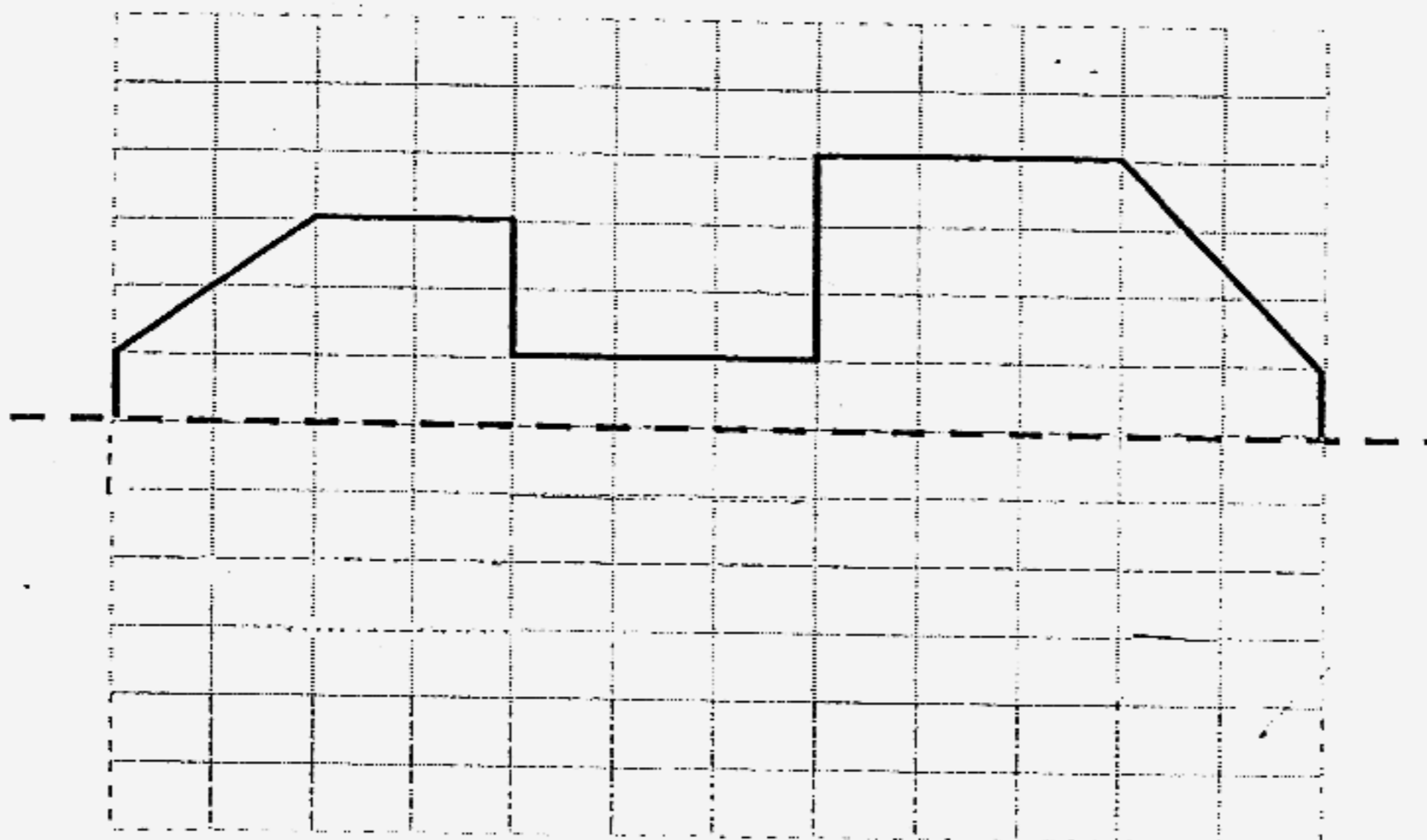
Answer : _____

24. Ming Hong ran 19.2 km.
He ran five times as far as Li Ping.
What was the total distance both of them ran altogether?
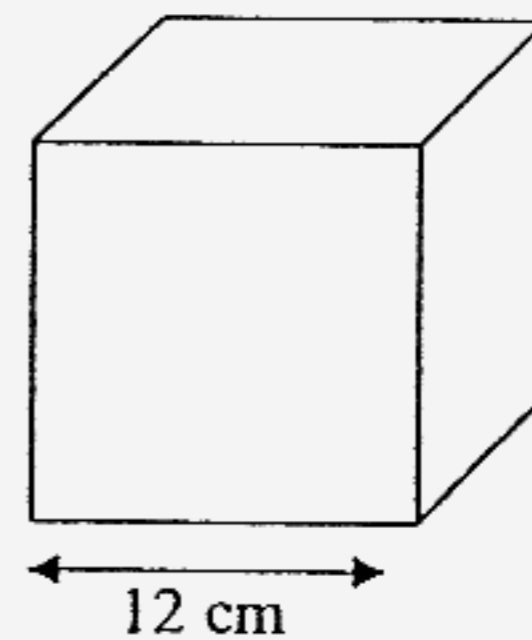
Answer :_____

25. Martin has some 1-kg and 5-kg gold bars in his safe. The mass of all the gold bars he has is 14 kg. He has 2 more 1-kg gold bars than 5-kg gold bars. How many 1-kg bars has he? (Hint : Make a list)

Answer : _____

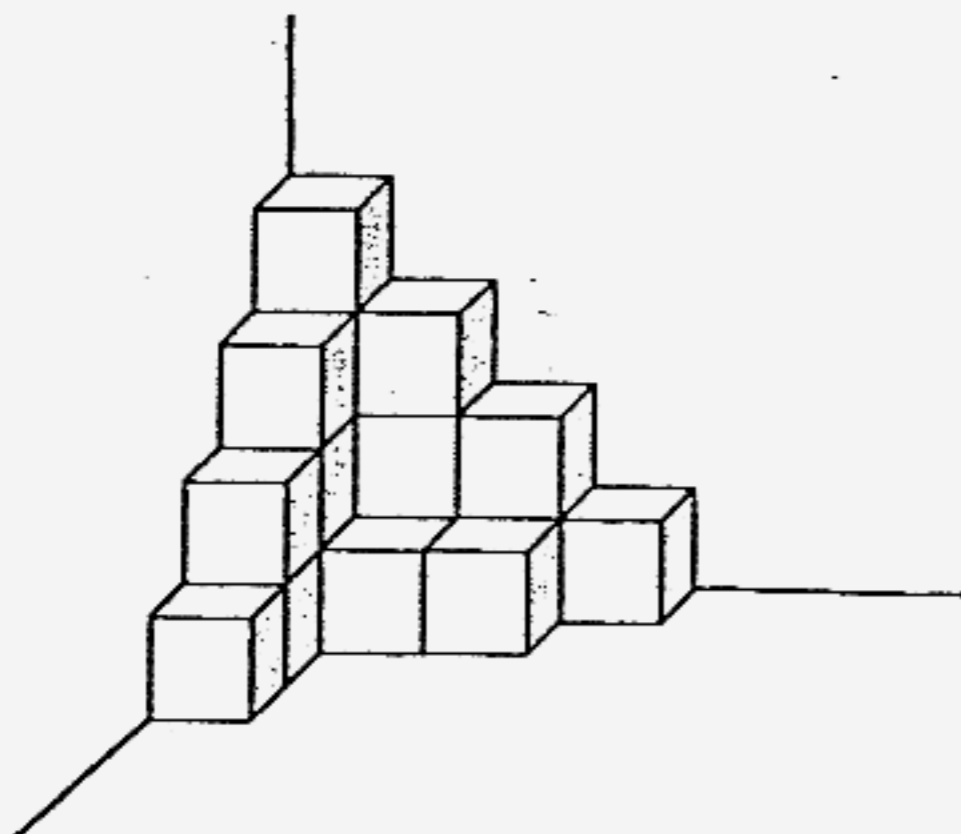26. Use the dotted line as a line of symmetry. Complete the following symmetric figure.

27. How many 3-cm cubes are needed to build a cube of edge 12 cm?

12 cm

Answer : _____

28. How many unit cubes are used to build the cuboid?

Answer : _____

29. A rectangular tin measures 25 cm by 20 cm by 4 cm. How many millilitres of water can it hold?

Answer : _____ ml

30. A water tank is 8 m long, 4 m wide and 2 m high, is $\frac{3}{4}$ filled with water. What is the volume of the water in the tank?

Answer : _____ m³

For questions 31 to 40, show your working and statements clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. All diagrams are not drawn to scale unless otherwise stated. All answers must be expressed in the simplest form.

31.   There were 4 573 people at a concert theatre. 2 057 of them were children and 962 of them were men. The rest were women. How many women were there at the concert theatre?

Answer: _____ [4]

32.   3 similar blouses and 2 similar skirts cost $136. If 2 such blouses and 2 such skirts cost $114, find the cost of each skirt.

Answer: _____ [4]

33. Nicholas has 7 times as many stamps as Patrick. James has 5 times as many stickers as Patrick. If James has 140 stamps fewer than Nicholas, how many stickers do the three boys have altogether??

Answer: _____ [4]

34. Mary works as a part-time waitress at a restaurant. She works 6 h 30 min on weekdays. On Saturday and Sunday, she works 2 hours longer on each day. How long does she work in a week?

Answer: _____ [4]

35. Llewyn had some cookies. He gave $\frac{2}{5}$ of the cookies to his mother and $\frac{1}{6}$ of the remainder to a friend. He had 25 cookies left. How many cookies did he have at first?

Answer: (a) _____ [4]

36. Sally weighs 20.25 kg. Her mass is $\frac{1}{4}$ of her father. Her mother is 20 kg lighter than her father. What is their total mass?

Answer: _____ [4]

37. $\frac{7}{12}$ of Cherry's marbles are blue and the rest are red. If she has 45 red marbles, how many more blue marbles than red marbles does she have?
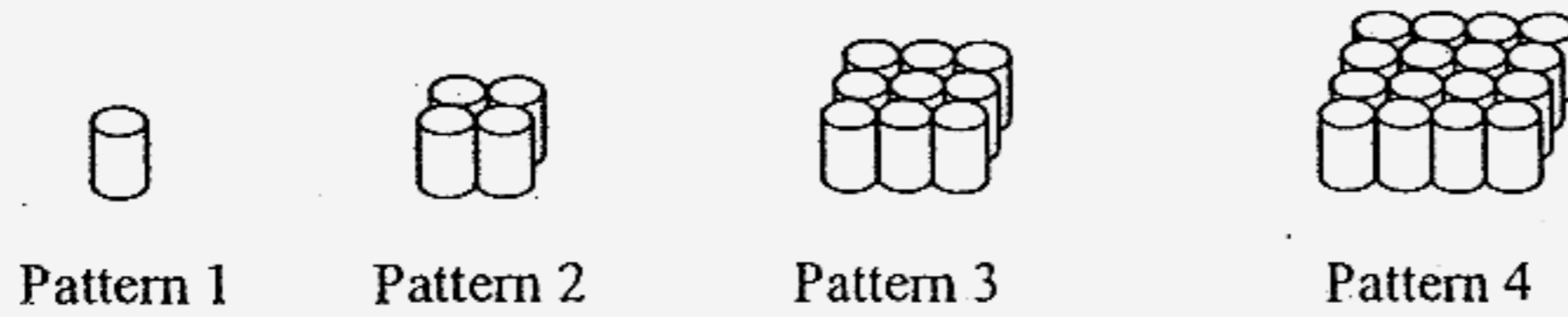
Answer: _____ [4]

38. Sean used 10 identical matchsticks to form a rectangle. He used 3 matchsticks to form one side of the rectangle. If each identical matchstick is 6 cm, find the area of the rectangle. (Hint : Draw a diagram)

Answer: _____ [4]

39. Leon and Timothy had an equal amount of money. After Leon had given $25.50 to Timothy, Timothy had 4 times as much as Leon. How much money did they have altogether?

Answer: _____ [4]

40. Study the pattern carefully

Pattern 1   Pattern 2   Pattern 3   Pattern 4

Pattern	No of cylinder	Total volume of cylinders
1	1	8 cm³
2	4	32 cm³
3	9	72 cm³
4	16	
6		288 cm³

(a) The total volume of cylinders in Pattern 4 is _____. (1 mark)

(b) The number of cylinders in Pattern 6 is _____. (1 mark)

(c) I have used 81 cylinders to form a pattern.

I have formed Pattern _____. (1 mark)

(d) The total volume of cylinders in a pattern is 7 200 cm².
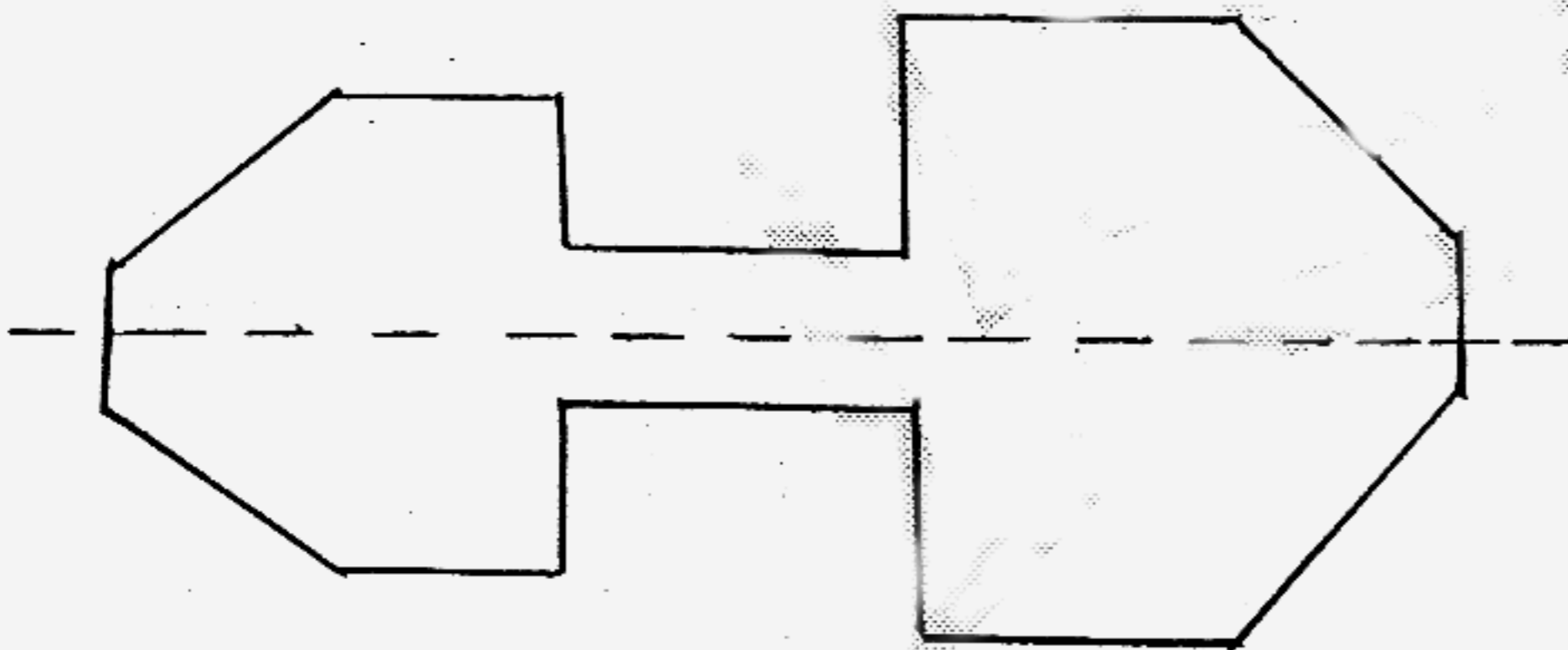
I have formed Pattern _____. (1 mark)

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1. 2
2. 4
3. 4
4. 1
5. 3
6. 2
7. 4
8. 4
9. 2
10. 2
11. 3
12. 31
13. 5/8
14. 68
15. $2
16. a)68   b)Monday and Wednesday
17. 60
18. 38cm
19. 6cm2
20. 181.925
21. 14
22. 2.3
23. 2
24. 2304km
25. 4
26.

27) 64
28) 18 unit cubes
29) 2000ml
30) 48m3

31) 4573-2057=2516
    2516-962=1554
    There were 1554 women.

32) 136-114=22 (1b)
    22x2=44
    114-44=70
    70÷2=35
    The cost of each skirt
    is $35

33) 140÷2=70
    70x13=910
    They have 910 stamps
    altogether.

34) 6h 30min+2h=8h 30mins
    8h 30minsx2=17h
    6h 30minx5=
    30h+2h 30mins=
    32h 30mins
    32h 30min+17h=
    49h 30 mins.
    She works 49h 30 mins
    In a week.

35) $25 \div 5 = 5$
   $5 \times 6 = 30$
   $30 \div 3 = 10$
   $10 \times 5 = 50$
   He have 50 cookies at first.

36) $20.25 \times 4 = 81.00$
   $81.00 - 20 = 61.00$
   $81 + 61 + 20.25 = 162.25$
   Their total mass is 162.25kg.

37) $45 \div 5 = 9$
   $9 \times 7 = 63$
   $63 - 45 = 18$
   She have 18 more blue marbles
   than red marbles.

38) $6 \times 3 = 18$
   $6 \times 2 = 12$
   $18 \times 12 = 216$
   The area of the rectangle
   Is 216cm2

39) $25.30 \div 3 = 8.50$
   $8.50 \times 10 = \$85.00$
   They have \$85.00 altogether.

40) a) 128cm3
   b) 36
   c) 9
   d) 30