



**NAN HUA PRIMARY SCHOOL**  
**SEMESTRAL ASSESSMENT 2 - 2007**  
**PRIMARY 4**  
**MATHEMATICS**

Time : 1 h 45 min

INSTRUCTIONS TO CANDIDATES

1. Write your name, register number and class in the blanks provided.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Write your answers in this booklet.

Marks Obtained

Section A & B:	/ 80
Section C:	/ 20
Total	/ 80/100

Name : \_\_\_\_\_ ( )

Class : P 4 \_\_\_\_\_

Date : 25 October 2007      Parent's Signature : \_\_\_\_\_

**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 89 002, the digit '9' stands for \_\_\_\_\_.
- (1) 9 ones
  - (2) 9 tens
  - (3) 9 hundreds
  - (4) 9 thousands
- ( )
2. How many **hundreds** are there in 13 700?
- (1) 137
  - (2) 700
  - (3) 1 370
  - (4) 3 700
- ( )
3. A car-park is in the shape of a rectangle. Its length is 50 m and its breadth is 30 m. Its area is \_\_\_\_\_.
- (1) 80 m<sup>2</sup>
  - (2) 150 m<sup>2</sup>
  - (3) 160 m<sup>2</sup>
  - (4) 1 500 m<sup>2</sup>
- ( )
4. The two common factors of 24 and 36 are \_\_\_\_\_.
- (1) 2, 9
  - (2) 3, 6
  - (3) 3, 9
  - (4) 4, 8
- ( )

5.  $3 \times 0.9$  is the same as \_\_\_\_\_.

(1)  $\frac{3}{100} \times \frac{9}{10}$

(2)  $\frac{3}{10} \times 9$

(3)  $\frac{3}{100} \times 9$

(4)  $\frac{3}{10} \times \frac{9}{10}$  ( )

6. Which of the following is an equivalent fraction of  $\frac{2}{10}$  ?

(1)  $\frac{1}{4}$

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

(3)  $\frac{1}{6}$

(4)  $\frac{1}{8}$  ( )

7. If the area of a square is  $64 \text{ cm}^2$ , its perimeter is \_\_\_\_\_.

(1) 8 cm

(2) 16 cm

(3) 32 cm

(4) 256 cm ( )

8. A girl was 34 kg when rounded off to the nearest kg. Which of the following could be her possible mass ?

(1) 33.48 kg

(2) 33.31 kg

(3) 34.52 kg

(4) 34.37 kg ( )

9. Which of the following will give the **smallest** answer?

- (1)  $10 - 1$
- (2)  $10 - 0.1$
- (3)  $10 - 0.01$
- (4)  $10 - 0.001$

( )

10. How many halves can you get from  $3\frac{1}{2}$  ?

- (1) 5
- (2) 6
- (3) 7
- (4) 8

( )

11. Figures A to D is each made up of 9 squares. In each of them, 4 squares are shaded. Which figure does not have a line of symmetry?

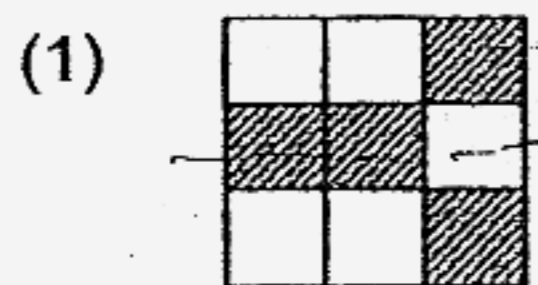


Figure A

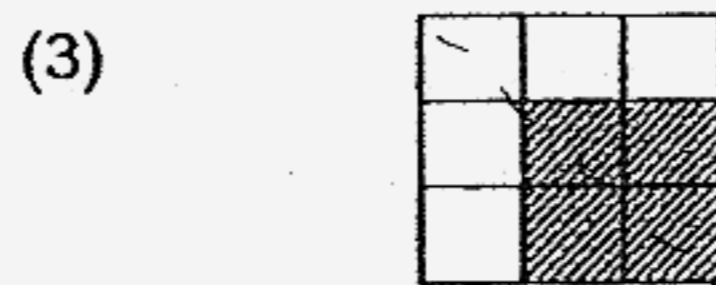


Figure C

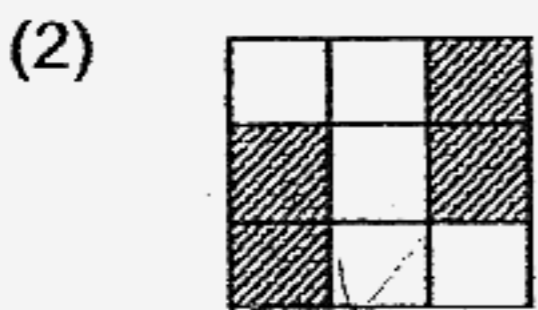


Figure B

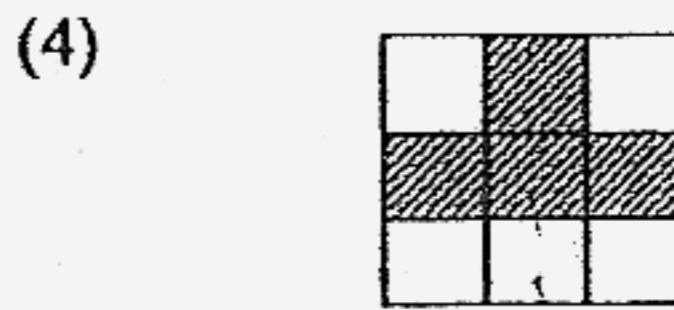
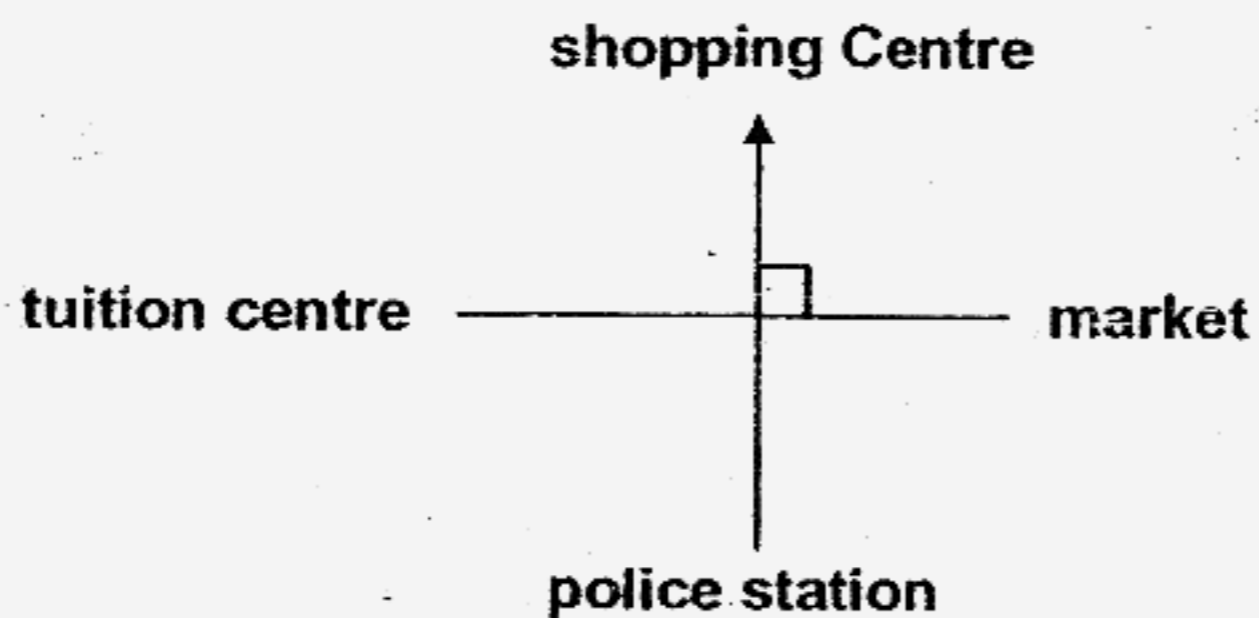


Figure D

( )

12.

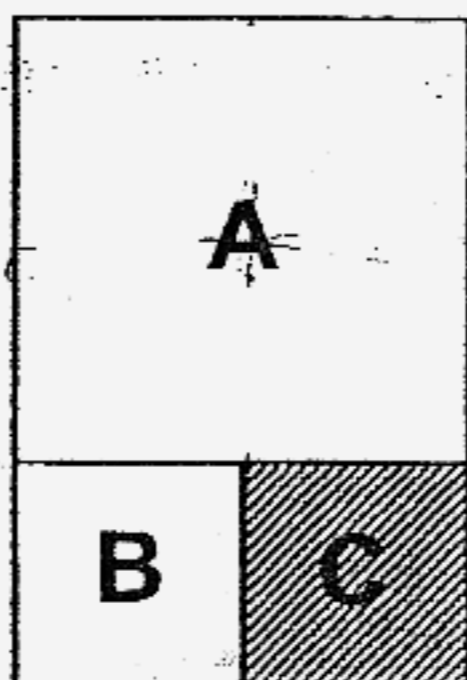


John is facing the shopping centre now. If he turns  $270^\circ$  anti-clockwise, he would be facing the \_\_\_\_\_.

- (1) market
- (2) police station
- (3) shopping centre
- (4) tuition centre

( )

13. The figure below is made up of 3 squares A, B and C. What fraction of the figure below is shaded ?



- (1)  $\frac{1}{2}$
- (2)  $\frac{1}{3}$
- (3)  $\frac{1}{5}$
- (4)  $\frac{1}{6}$

( )

14. Express  $1\frac{3}{100}$  as a decimal.

- (1) 0.13
- (2) 1.03
- (3) 1.003
- (4) 10.03

( )

15.  $1.12 = 1.1 +$

What is the missing number in the box?

- (1) 0.2
- (2) 2
- (3) 0.02
- (4) 0.002

( )

16. In  $1.25 = 1 + \frac{1}{\square}$ , the missing denominator is \_\_\_\_\_.

- (1) 25
- (2) 2
- (3) 100
- (4) 4

( )

17. What time is 50 minutes after 14 50 ?  
(State the time using the 12-hour clock.)

- (1) 3.00 a.m.
- (2) 3.40 a.m.
- (3) 3.00 p.m.
- (4) 3.40 p.m.

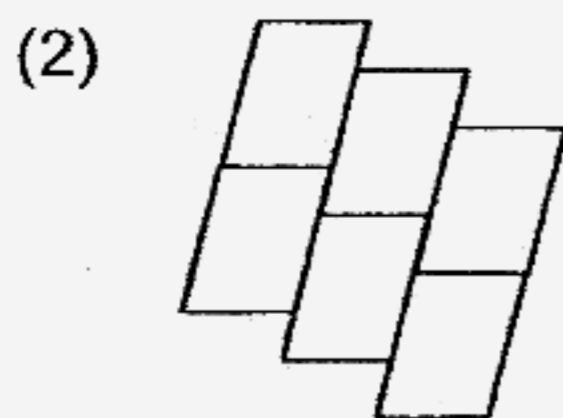
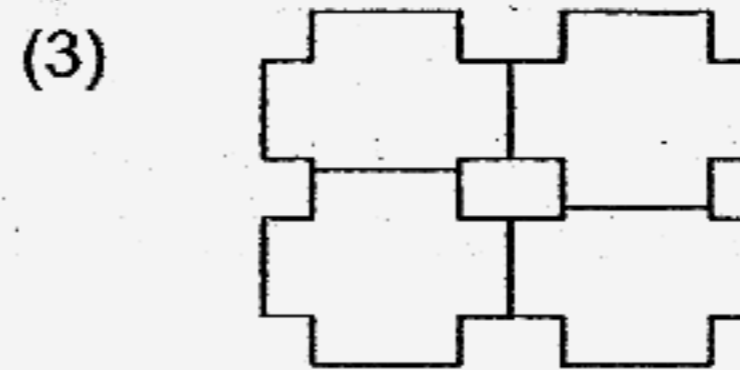
( )

18. What is the value of  $0.48 \div 6$  ?

- (1) 0.008
- (2) 0.08
- (3) 0.8
- (4) 8

( )

19. Which of the following is a tessellation?



( )

20. It is twelve noon. In 45 minutes' time, how many right angles would the minute hand turn?

- (1) 1
- (2) 2
- (3) 3
- (4) 4

( )

**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.

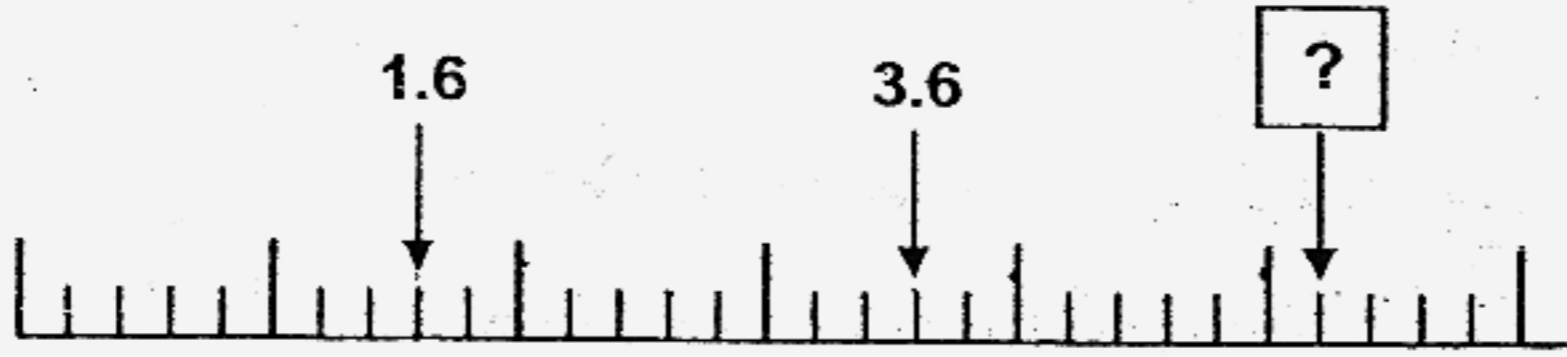
Show your workings clearly and give your answers in the units provided.

21. In 21.35, the digit \_\_\_\_\_ is in the **hundredths** place.22. Find the **quotient** when 409 is divided by 7.23. Find the value of  $2.5 m + 5$ .

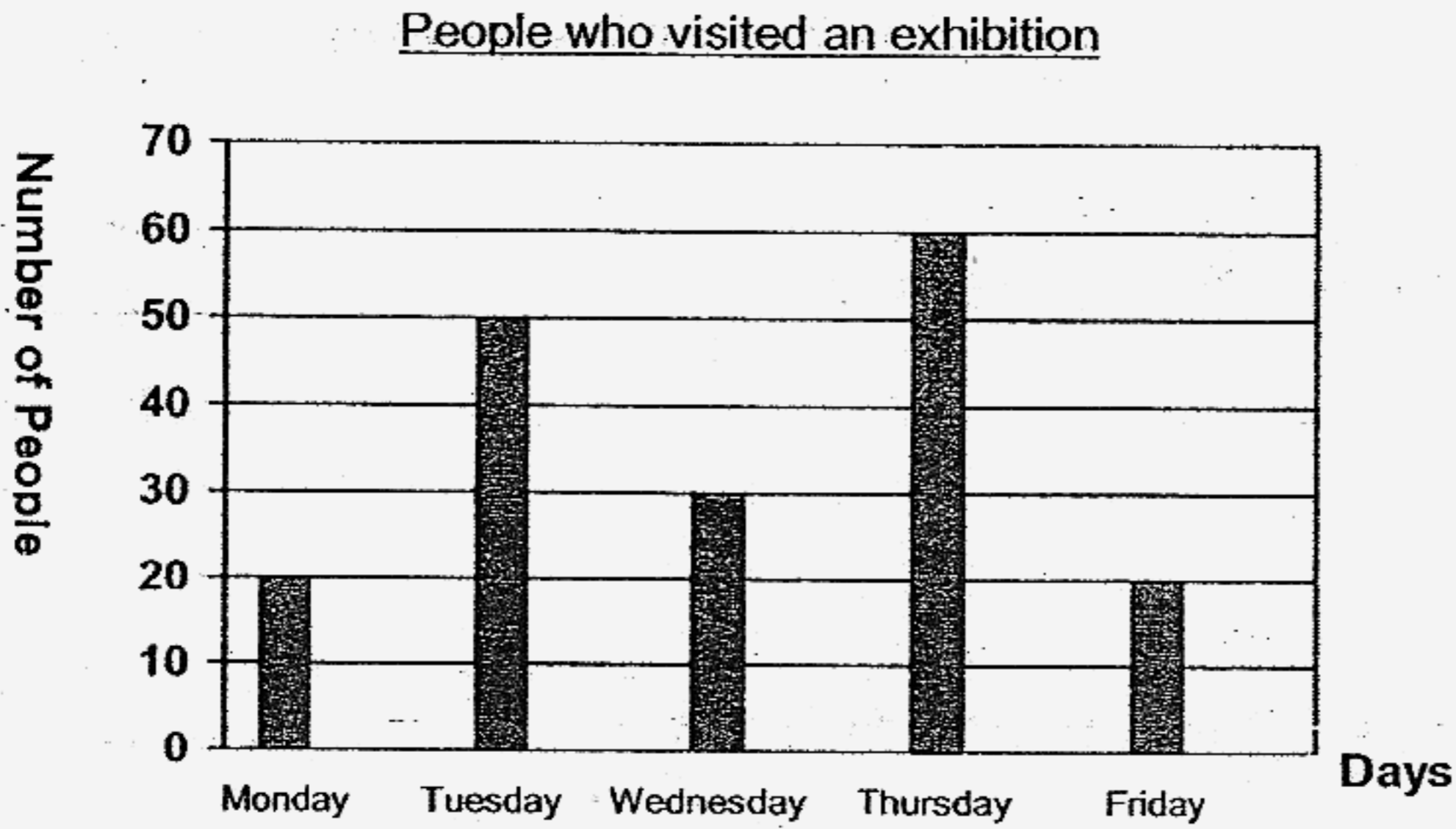
24. Mabel's present age is a multiple of 5. Next year, her age will be a factor of 48. If Mabel is between 10 and 25 years old, what is her age in 4 years' time ?



25. Fill in the missing number.




Study the graph below carefully and answer questions 26 and 27.



The graph above shows the number of people who visited an exhibition on different days.

26. On which day was there **twice** as many people as on Wednesday?

27. What is the total number of people who visited the exhibition from Monday to Friday ?

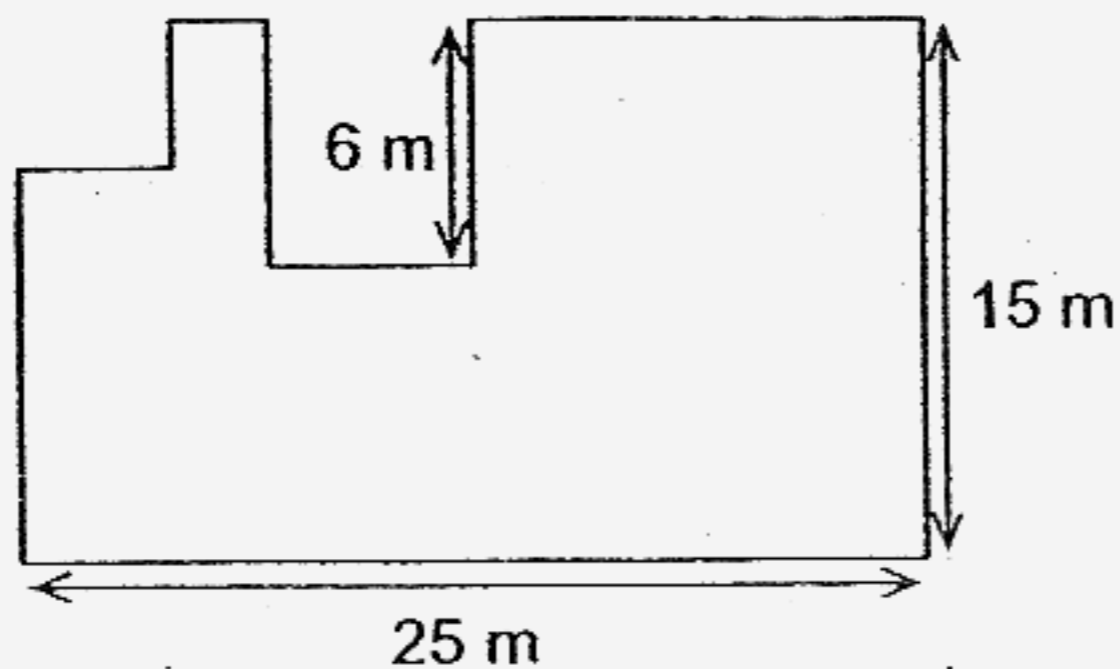
28. The sum of two numbers is 45. If one of them is twice the other number, find the smaller number.

29. Christopher had 6 blue pens and 3 green pens. He gave 2 blue pens away. What fraction of the remaining pens were blue ?

30. Find the time duration from 15 20 to 20 35.

31. Express 6.50 p.m. using the 24-hour clock.

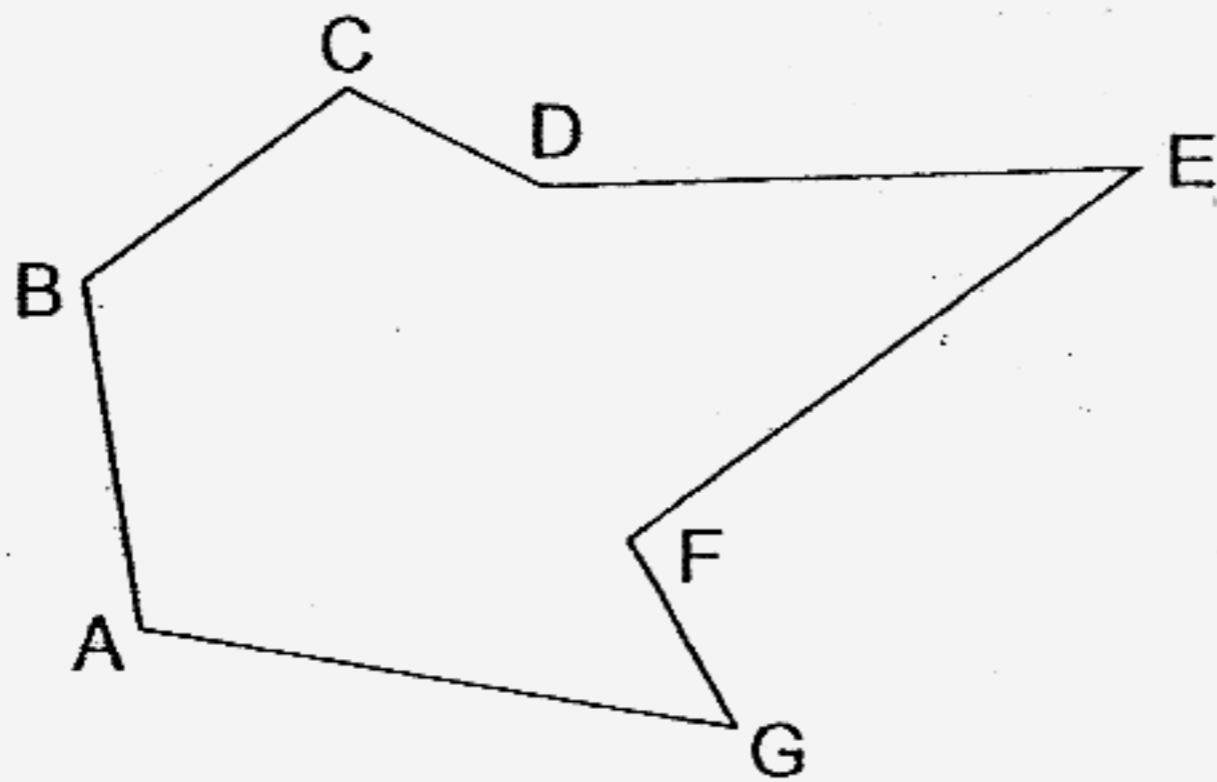
32. Find the perimeter of the given figure.  
(The figure below is not drawn to scale.)



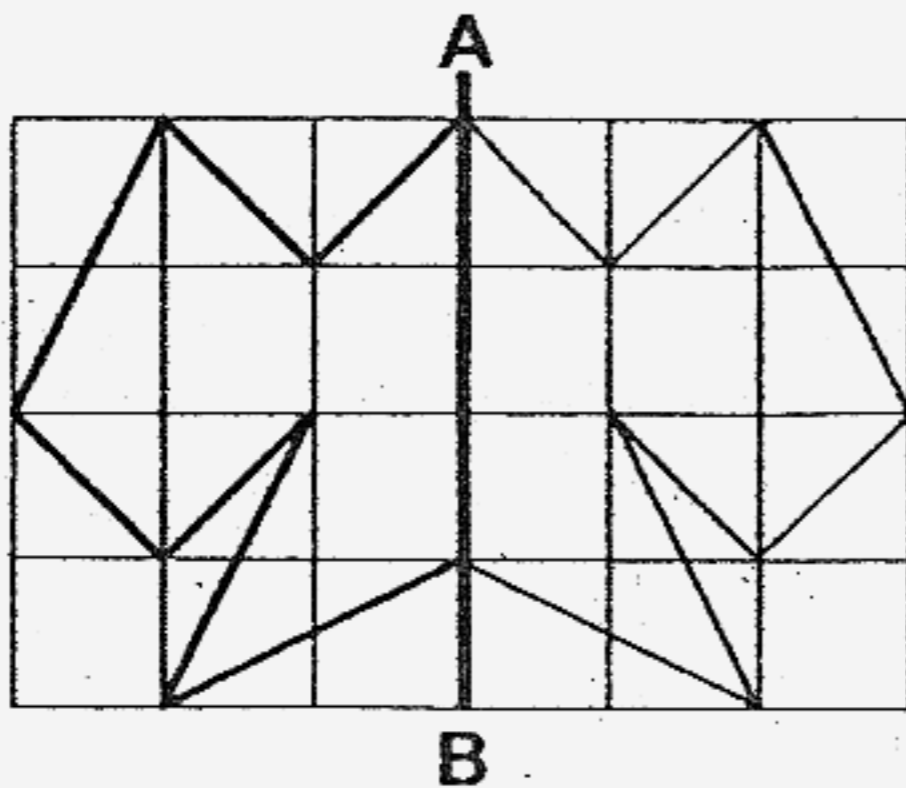
33. Every 5 apples cost \$1 and every 10 oranges cost \$1.50.  
Find the total cost of 10 such apples and 30 such oranges.

\$

34. Name a pair of parallel lines in the figure.



35. Complete the symmetric figure with AB as the line of symmetry.



36.  $\frac{1}{2}$  of the fruit in a basket are mangoes,  $\frac{1}{4}$  are bananas and the rest are pears. If there are 16 mangoes, how many pears are there in the basket?

pears

37. Henry has 100 marbles. He has 10 marbles fewer than Sam. How many marbles do they have altogether?

marbles

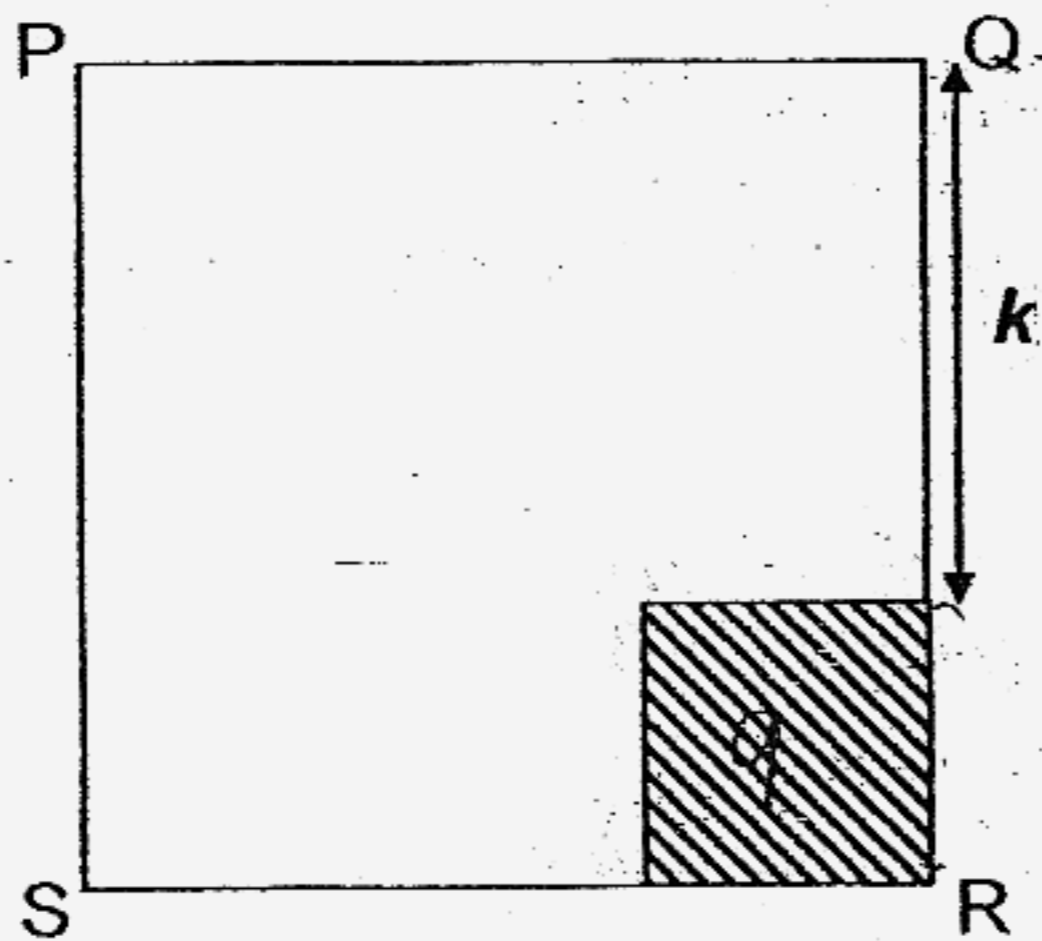
38. Ellen has 4 number cards as shown below.



By using the digits on the cards, she forms the greatest 4-digit number and the smallest 4-digit number. Find the **difference** between these 2 newly formed numbers.

39. Jill has 40 coins. Some of the coins are 50-cent coins and the rest are 20-cent coins. The total value of the coins is \$16.10. How many 20-cent coins does she have?

40. The area of square PQRS is  $81 \text{ cm}^2$ . The area of the smaller shaded square is  $9 \text{ cm}^2$ . Find the length of  $k$ . (The figure is not drawn to scale.)



cm

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

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

41. Jane mixed  $\frac{3}{8}$  litres of red paint with  $3\frac{1}{4}$  litres of white paint to paint her bedroom. If  $2\frac{1}{2}$  litres of paint was used, how much paint was left ?

42. Bala bought 6 Giodano T-shirts at \$3.60 each. His neighbour, Gopal bought 4 identical blouses and a similar Giodano T-shirt at a total amount of \$61.

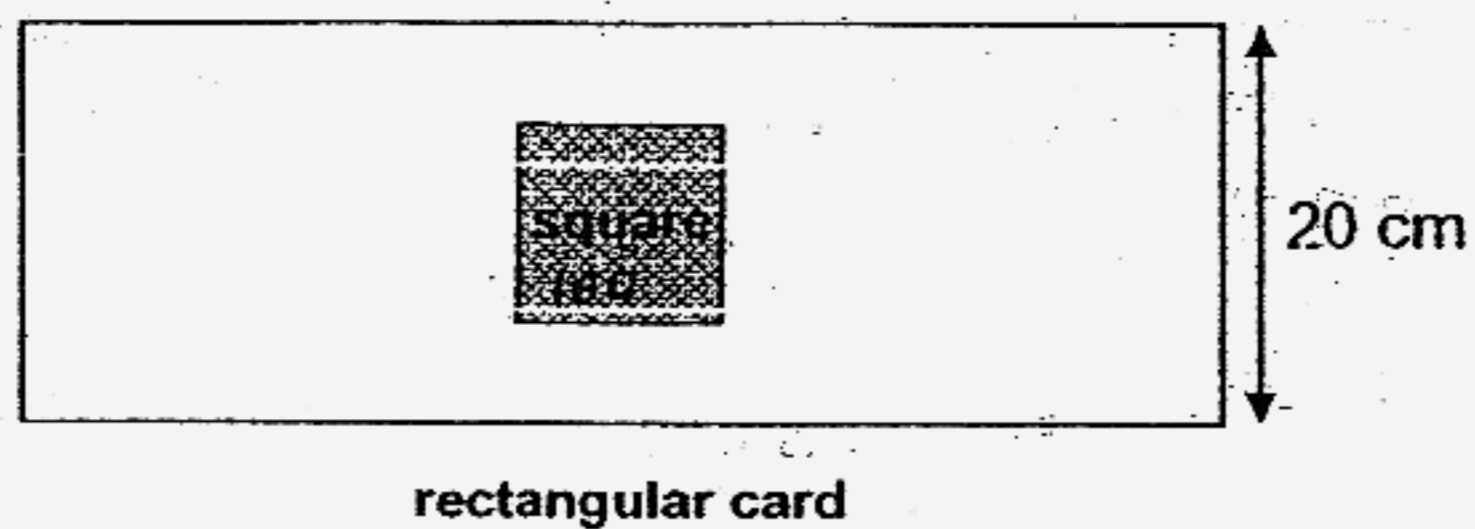
- (a) How much more did Gopal spend than Bala ?
- (b) What is the cost of 1 such blouse ?

43. There were some people at a musical. 240 of them were adults and the rest were children. The table below shows the ticket charges for the musical. If \$2 720 were collected from the sales of tickets, calculate the number of children at the concert.

	Price per person
Adult	\$6
Child	\$4

44. Jane loved sweets. Each day, she would eat 2 more than the previous day. If she ate a total of 27 sweets in 3 days, how many such sweets did she start with on the first day?

45. The breadth of a rectangular card is 20 cm. Its length is thrice as long as its breadth. Mr Lum draws a square in the middle of the rectangular card and shades it. The shaded square has an area of  $100 \text{ cm}^2$ . What is the area of the unshaded part of the card?  
(The figure below is not drawn to scale.)





**Nan Hua Primary School  
Primary 4 SA2 Maths Exam (2007)**

**Answer Keys**

- |       |       |       |       |       |
|-------|-------|-------|-------|-------|
| 1) 4  | 2) 1  | 3) 4  | 4) 2  | 5) 2  |
| 6) 2  | 7) 3  | 8) 4  | 9) 1  | 10) 3 |
| 11) 2 | 12) 1 | 13) 4 | 14) 2 | 15) 3 |
| 16) 4 | 17) 4 | 18) 2 | 19) 2 | 20) 3 |

21. 5

22. 58

23. 0.5

24. 19 years old

25. 5.2

26. Thursday

27. 180

28. 15

29.  $\frac{4}{7}$

30. 5hrs 15mins

31. 1850

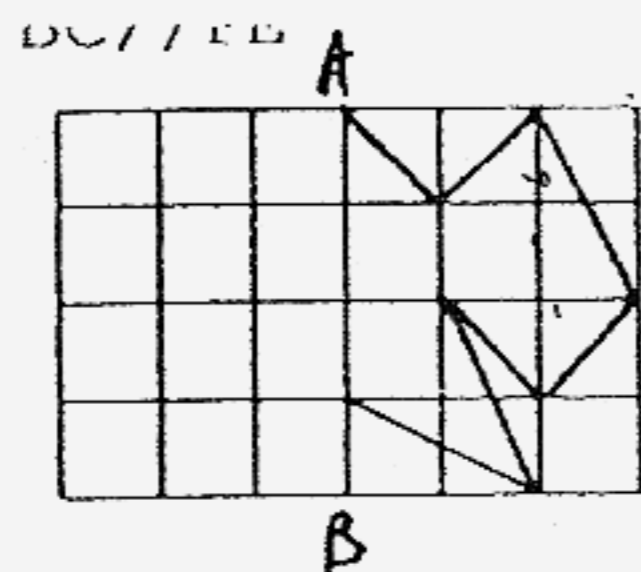
32. 92m

33. \$6.50

34. BC//FE

35.

36. 8 pears



37. 210 marbles

38. 5472

39. 13 coins

40. 6cm

$$\begin{aligned}
 41. \quad & \frac{3}{8}\ell + 3\frac{1}{4}\ell = \frac{3}{8}\ell + 3\frac{1}{4}\ell \text{ (x 2)} \\
 & = \frac{3}{8}\ell + 3\frac{2}{8}\ell \\
 & = 3\frac{5}{8}\ell \\
 & = 3\frac{5}{8}\ell - 2\frac{1}{2}\ell = 3\frac{5}{8}\ell - 2\frac{1}{2}\ell \text{ (x 4)} \\
 & = 3\frac{5}{8}\ell - 2\frac{4}{8}\ell \\
 & = 1\frac{1}{8}\ell
 \end{aligned}$$

$1\frac{1}{8}\ell$  of paint was left.

$$\begin{aligned}
 42a. \quad & \$3.60 \times 6 = \$21.60 \\
 & \$61.00 - 21.60 = \$39.40 \\
 & \text{Gopal spent } \$39.40 \text{ more than Bala}
 \end{aligned}$$

$$\begin{aligned}
 42b. \quad & \$61.00 - 3.60 = \$57.40 \\
 & \$57.40 \div 4 = \$14.35 \\
 & \text{The cost of 1 such blouse is } \$14.35
 \end{aligned}$$

$$\begin{aligned}
 43. \quad & 230 \times \$6 = \$1440 \\
 & \$2720 - 1440 = \$12820 \\
 & \$12820 \div \$4 = 320 \\
 & \text{There were 320 children at the concert.}
 \end{aligned}$$

44.

First day	Second day	Third day	Total
5	7	9	21 ×
7	9	11	27 ✓

She ate 7 sweets on the First day

$$\begin{aligned}
 45. \quad & 20\text{cm} \times 3 = 60\text{cm} \\
 & 20\text{cm} \times 60\text{cm} = 1200\text{cm}^2 \\
 & (1200 - 100)\text{cm}^2 = 1100\text{cm}^2 \\
 & \text{The area of the unshaded part of the card is } 1100\text{cm}^2
 \end{aligned}$$