6	M	E	1

(1)

Education and Manpower Bureau
Territory-wide System Assessment 2005
Primary 6
Mathematics

Instructions:

1. There are 44 questions in this test.
2. Answer all questions.
3. The time allowed is 55 minutes.
4. Use of calculators is not allowed.
5. Write your answers in this question booklet.

   (a) Multiple choice questions:

   Mark your answers by putting a "✓" in the "◯", e.g.:

   $2 + 3 =$

   ◯ A. 4 ✓ B. 5 ◯ C. 6 ◯ D. 7

   (b) Questions in which you are asked to "Show your working":

   Write your mathematical expressions/equations, answers and statements/conclusions in the space provided. There is NO need to show your rough work.

   (c) Other types of questions:

   Answer as required in the space provided.

6. Do your rough work on the rough work sheet provided.
7. Write your School Code, Class and Class Number in the spaces below.

School Code | | | | **Class** | | **Class No.** | |

(5) (11)

Marker's Use Only

1. $800 - (287 + 365) =$ _____ 1 mark (12)

2. $658 \times 32 =$ _____ 1 mark (13)

3. $39.52 + 6.5 \div 1.3 =$ _____ 1 mark (14)

4. $32 \div 0.4 \times 0.8 =$ _____ 1 mark (15)

5. Circle all the fractions below that are equal to 1.

$$\frac{3}{9} \qquad \frac{6}{6} \qquad \frac{8}{4} \qquad \frac{11}{11}$$

1 mark (16)

6. $6 - 2\frac{3}{5} =$ ☐ 1 mark (17)

7. $2\frac{4}{7} \div \frac{6}{7} =$ ☐ 1 mark (18)

8. Change $\frac{29}{4}$ into a mixed number.

○ A. $1\frac{4}{7}$ ○ B. $4\frac{1}{7}$

○ C. $6\frac{5}{4}$ ○ D. $7\frac{1}{4}$

(19)

9. Circle the factors of 28.

1 4 5 9 12 14 28 56

1 mark (20)

Marker's Use Only

10. Change 4.04 into a fraction and reduce it to the simplest form.

Answer: ☐

☐ 1 mark (21)

11. Use the following cards to form 4-digit numbers.

7	4	0	8	9

(a) The largest 4-digit **odd** number is

☐ 1 mark (22)

(b) The smallest 4-digit **even** number is

☐ 1 mark (23)

12. 8 is a common multiple of

○ A. 2, 6 ○ B. 4, 8

○ C. 8, 16 ○ D. 16, 24

(24)

13. My sister spent $3\frac{5}{6}$ hours on knitting a scarf yesterday and $4\frac{2}{3}$ hours today. She spent ☐ hour(s) more on knitting today than yesterday.

☐ 1 mark (25)

Go on to the next page

Marker's Use Only

14. My sister's height was 125 cm last year. This year her height increased by $\frac{1}{25}$ when compared to last year. What is my sister's height this year?
(Show your working)

1 mark (26)

1 mark (27)

1 mark (28)

15. 6 is a common factor of

○ A. 1, 6 ○ B. 2, 3
○ C. 3, 8 ○ D. 12, 24

(29)

16. Change the following numbers into percentages:

(a) 0.09 = _____ %

1 mark (30)

(b) $\frac{5}{8}$ = _____ %

1 mark (31)

17. A car park has 460 parking spaces. $\frac{3}{5}$ of them are for private cars. The number of parking spaces for private cars is _____ .

1 mark (32)

Marker's Use Only

18. Joy Tuckshop has 25 kg of fruit candies. $\frac{3}{5}$ of them are packed into bags of $\frac{3}{10}$ kg each for sale. How many bags of fruit candies can be packed?
(Show your working)

1 mark (33)

1 mark (34)

1 mark (35)

19. Write down all the common multiples of 6 and 10 which are less than 100.

Answer: _____

1 mark (36)

20. My father typed a document of 960 words in 32 minutes. My sister on average can type 48 words in one minute. If she had typed for father, she would have used _____ minutes less than him.

1 mark (37)

21. The original price of a watch is \$1200. It is sold at a special price of \$900. The watch is sold at a discount of _____ %.

~~Original price \$1200~~
Special price \$900

1 mark (38)

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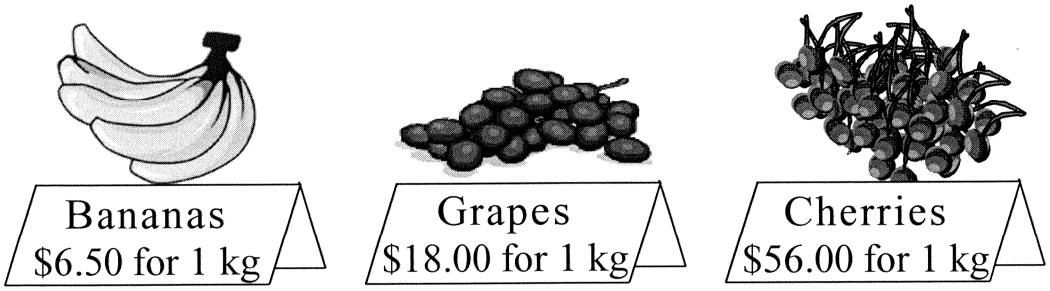
Marker's Use Only

22.



(a) My aunt buys 1 kg of bananas and 1.2 kg of grapes. How much does she need to pay?

Answer: She needs to pay $ _____ .

1 mark (39)

(b) My grandmother buys 1.5 kg of cherries and she pays with a $100 note. What change should she get?

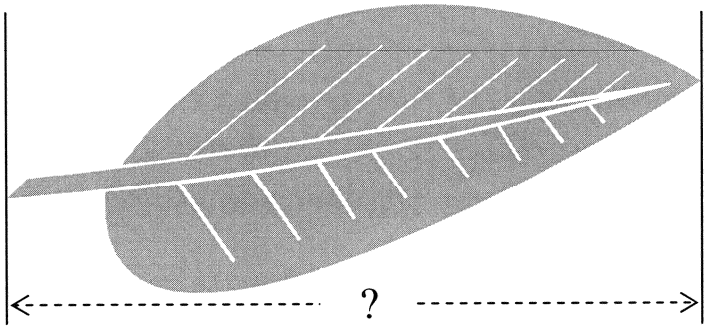
(Show your working)

1 mark (40)

1 mark (41)

1 mark (42)

23. Tom picks up a leaf from the ground and he uses a ruler to measure the length of the leaf.



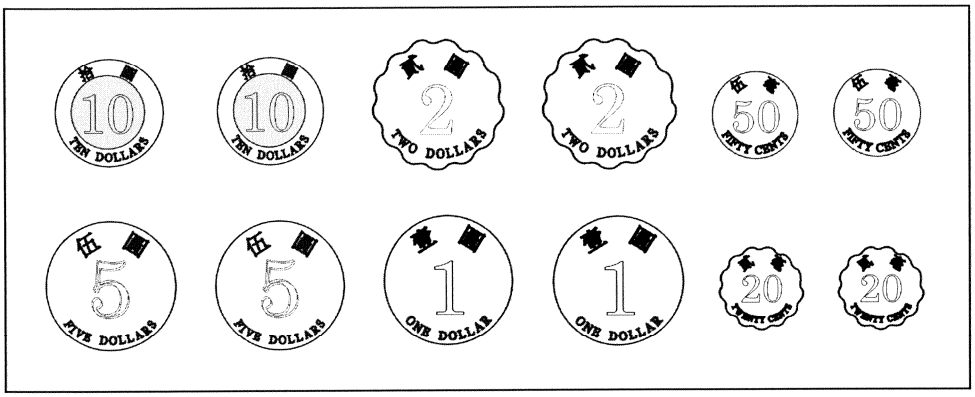
The length of the leaf is _____ . (Give your answer with unit)

1 mark (43)

Marker's Use Only

24. Mary went home by bus. The bus fare was \$3.50 and she did not have any coins. She used a \$20 note to get coins from a passenger. Circle the coins she should get.

(The answer must include coins of \$3.50 value to pay the exact bus fare)



1 mark (44)

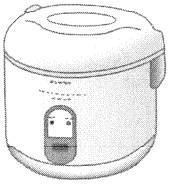
25. Fill in the blanks with suitable units of capacity.

(a)

The capacity of the water bottle is around 350 _____ .

1 mark (45)

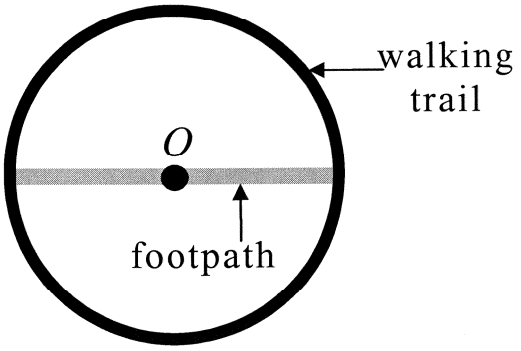
(b)



The capacity of the rice cooker is around 1.8 _____ .

1 mark (46)

26.



In the figure on the left, O is the centre of a circular walking trail. Around how many times the length of the footpath is the length of the walking trail?

○ A. 1

○ B. 2

○ C. 3

○ D. 6

(47)

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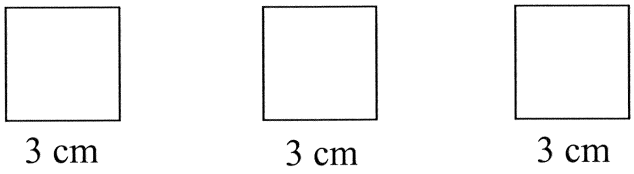
Marker's Use Only

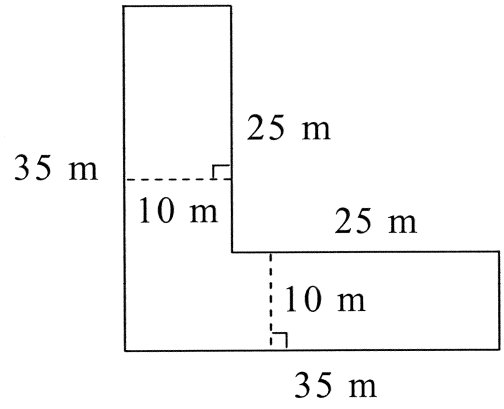
27. My brother makes a rectangle by putting together three squares of the same size as shown below. What is the perimeter of the rectangle?



○ A. 12 cm ○ B. 24 cm

○ C. 27 cm ○ D. 36 cm

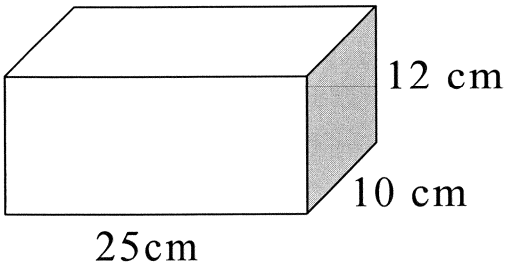
(48)

28. 

Uncle Sam rents a L-shape shop in a shopping centre. The floor plan of the shop is shown on the left. What is the area of the shop?

Answer: The area is _____ m^2.

1 mark (49)

29. 

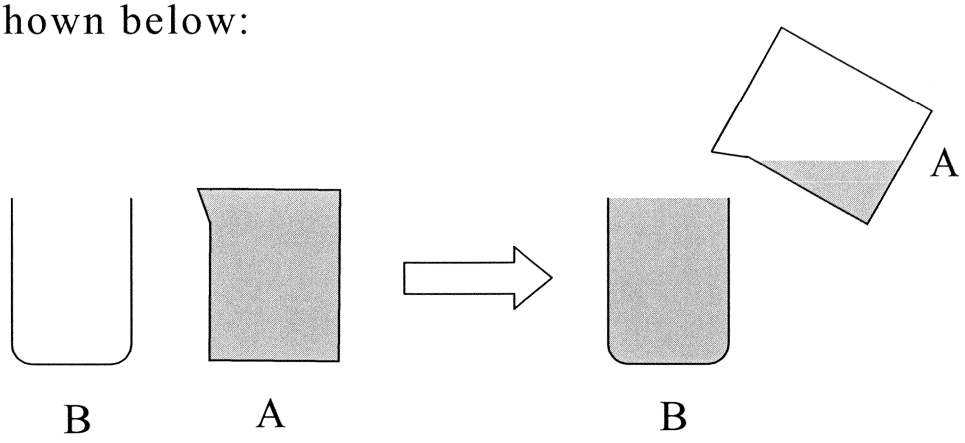
The volume of the cuboid on the left is _____ cm^3.

1 mark (50)

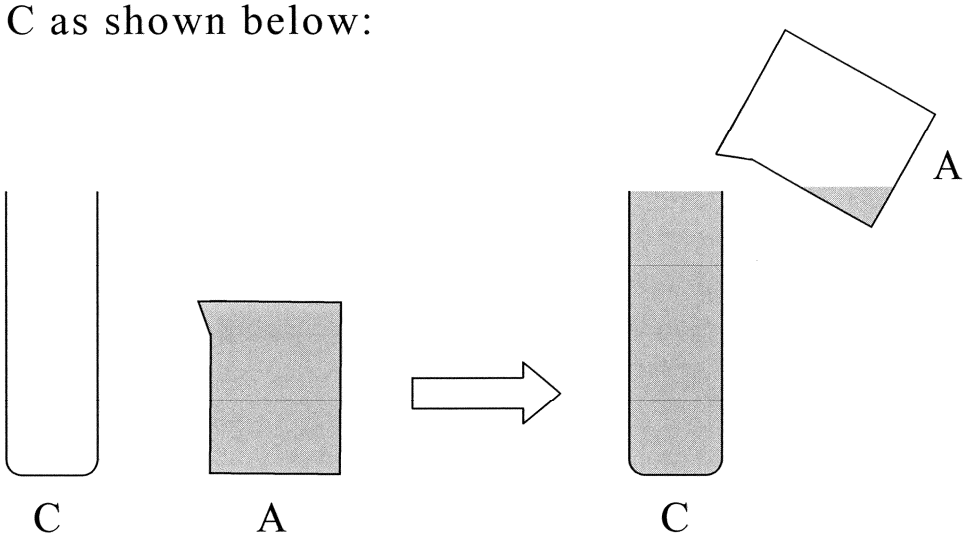
30. On our tour in Thailand, it took us around 2 hours to travel from Bangkok to Pattaya by coach. The average speed of the coach was 75 km/h. The distance between Bangkok and Pattaya is around _____ km.

1 mark (51)

31. Kitty compares the capacity of the three containers A, B and C. She fills up A with water, and then pours the water into B as shown below:



She fills up A with water again, and then pours the water into C as shown below:



Arrange the capacities of the containers in descending order.

Answer: _____ (largest) , _____ , _____ (smallest)

1 mark (52)

32. The length of a railway is 72 km. A train travels at an average speed of 80 km/h. How long does the train take to travel the whole railway?

Answer: The train takes _____ hour(s) to travel the whole railway.

1 mark (53)

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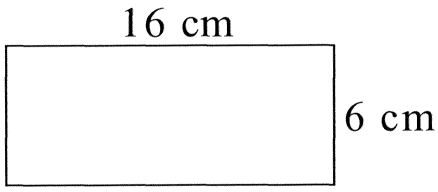
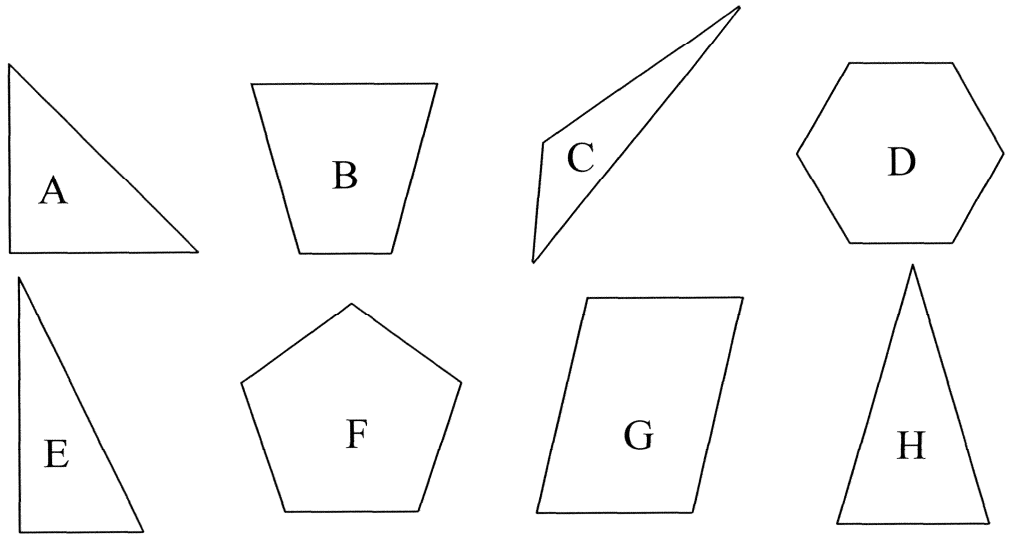
Marker's Use Only

33. The perimeter of the rectangle on the right is _____ cm.



1 mark (54)

34.



(a) Which of the plane figures above are isosceles triangles? Fill in the blank with the letters for the answer.

Answer: _____

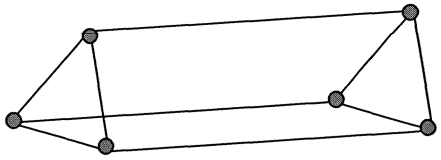
1 mark (55)

(b) Which of the plane figures above is a parallelogram? Fill in the blank with the letter for the answer.

Answer: _____

1 mark (56)

35. The solid figure on the right is a

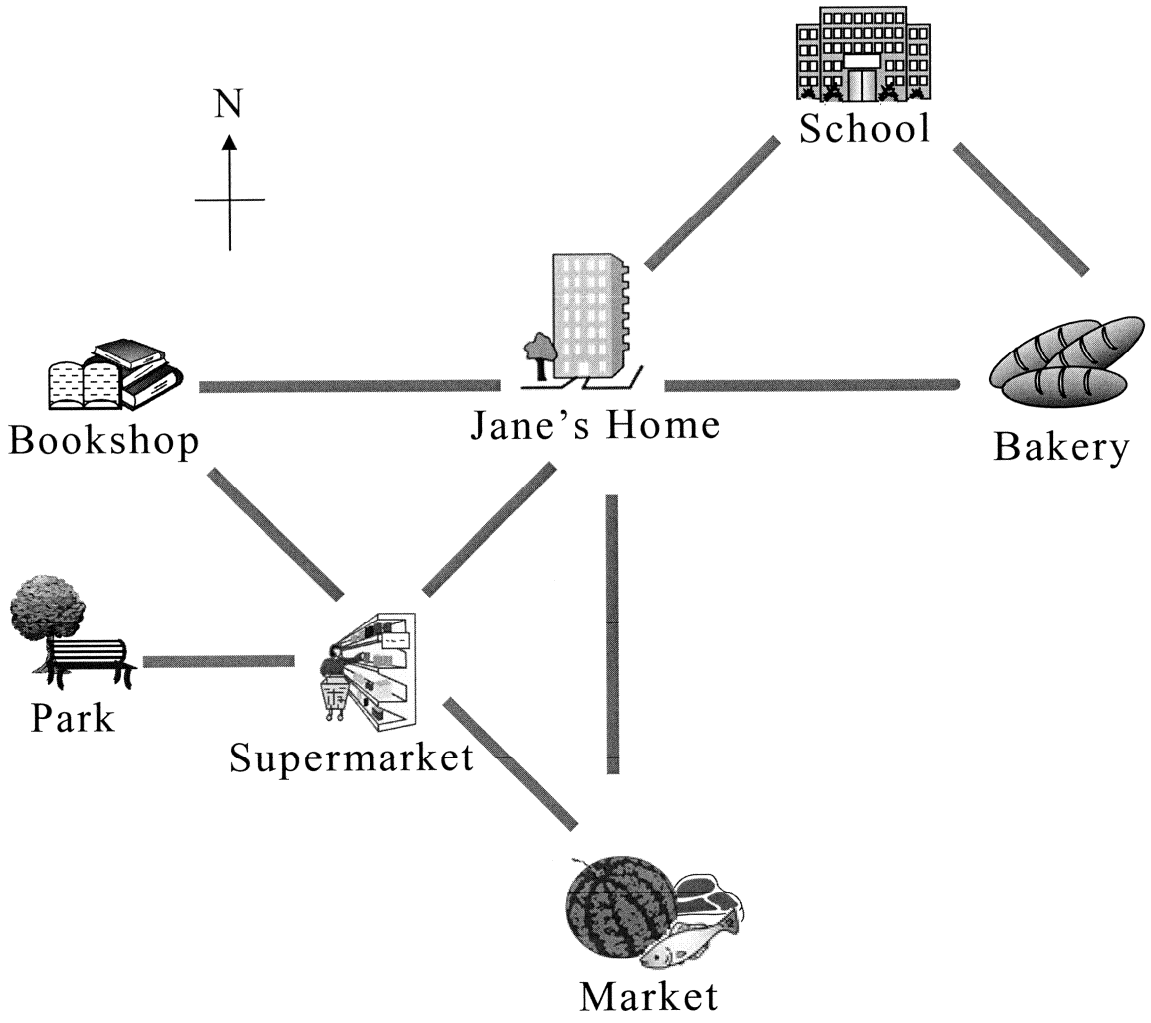


- ○ A. triangular prism
- ○ B. triangular pyramid
- ○ C. rectangular prism
- ○ D. rectangular pyramid

(57)

Marker's Use Only

36.



(a) In the morning Jane sets off from home and walks towards the _____ direction to go to school. 1 mark (58)

(b) When Jane's mother walks from the supermarket towards the north-west direction, she will reach the _____ . 1 mark (59)

(c) Jane's grandfather sets off from home to do exercise in the park. He first walks towards the _____ direction, passes the supermarket, and then walks due _____ to reach the park. 1 mark (60)

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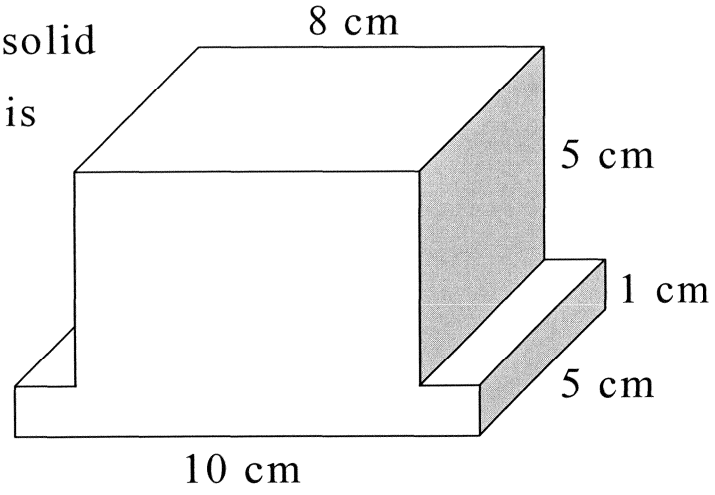
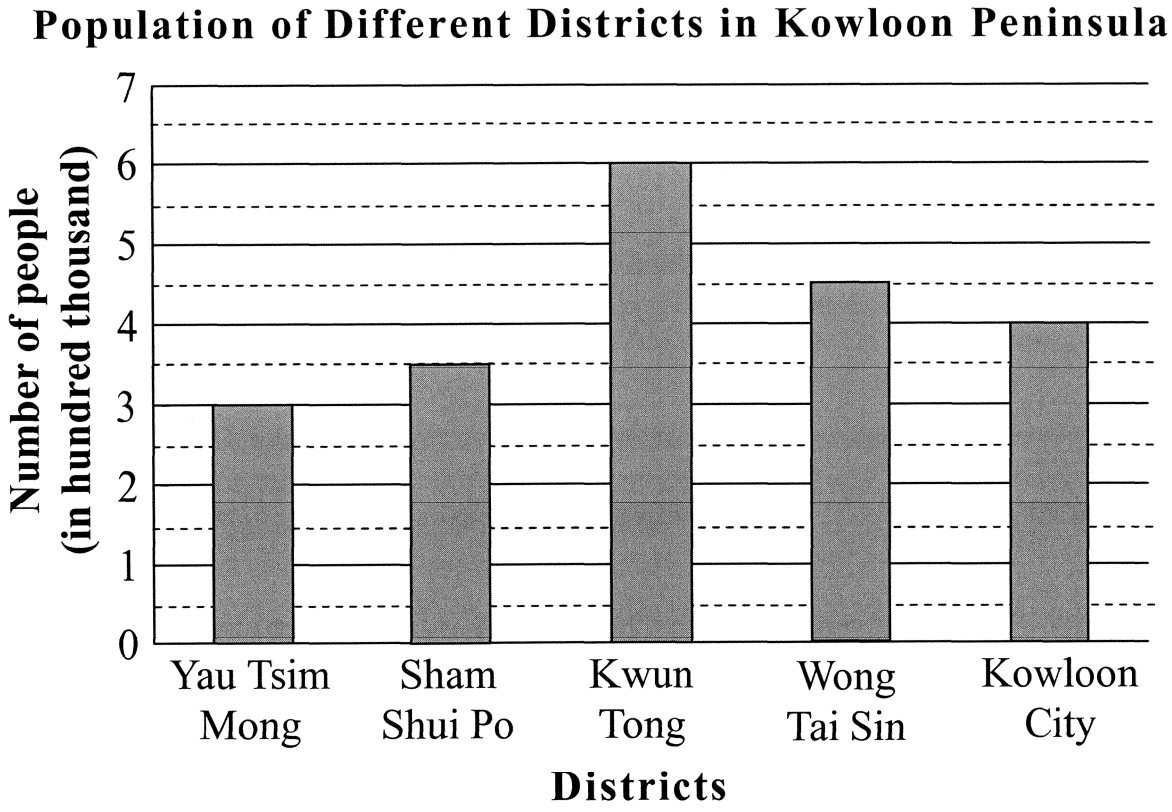
Marker's Use Only

37. The volume of the solid model on the right is _____ cm^3.



1 mark (61)

38. The following bar chart shows the population of different districts in Kowloon Peninsula.



(a) The district where most people live in is _____, which has a population of _____ people.

1 mark (62)

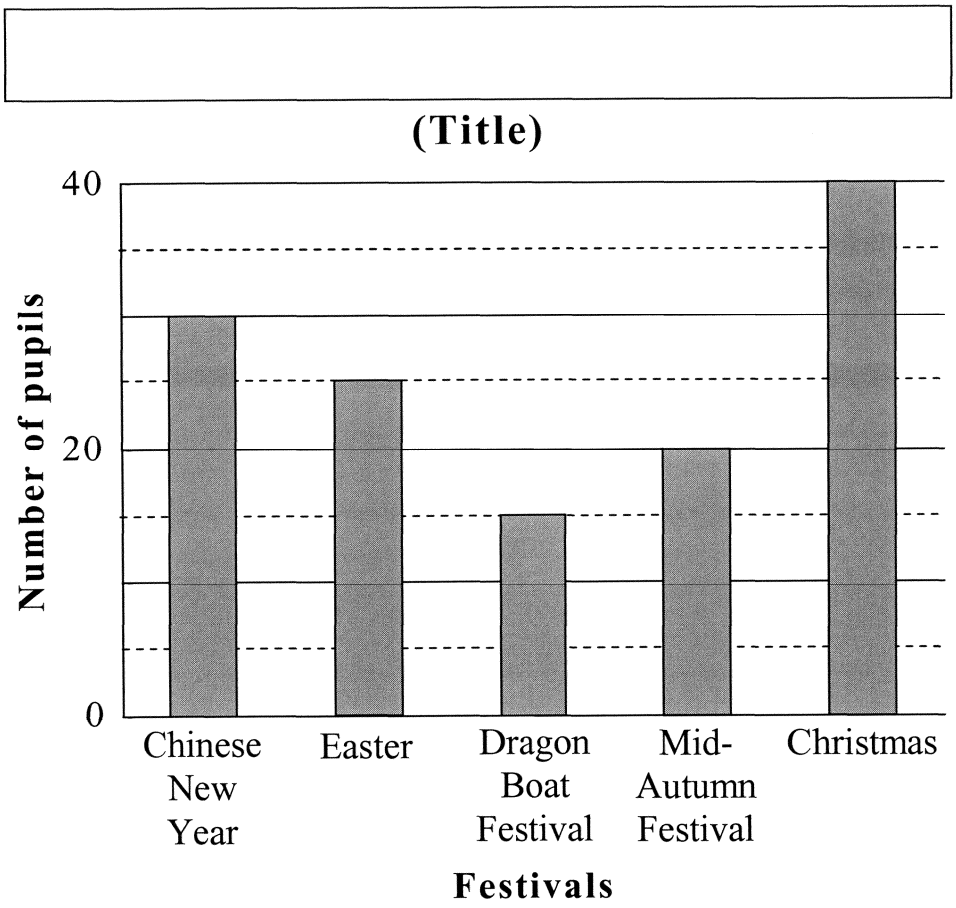
(b) The population of Wong Tai Sin district is _____ times that of Yau Tsim Mong district.

1 mark (63)

Marker's Use Only

39. During project learning, Primary 6 pupils conducted a survey of the most favourite festivals of their schoolmates. According to the survey data, the following bar chart was constructed.

(a) Give a suitable title for the bar chart in the box below.



1 mark (64)

(b) Complete the table below.

Festivals	Chinese New Year	Easter	Dragon Boat Festival	Mid-Autumn Festival	Christmas
Number of pupils	30				

1 mark (65)

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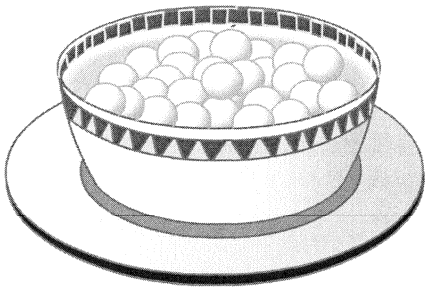
Marker's Use Only

40. Miss Chan had to mark the mathematics papers of 5 classes. On average each class had 30 papers. She marked 52 papers on the first day, 47 papers on the second day and the rest on the third day. How many papers did she mark on the third day?

Answer: She marked _____ papers on the third day.

1 mark (66)

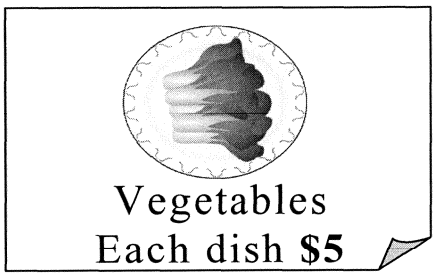
41. There are x sweet glutinous balls in a bowl and they are divided equally among 5 people. How many sweet glutinous balls does each person get?



Answer: Each person gets _____ sweet glutinous balls.

1 mark (67)

42. We have eaten three bowls of wonton noodles and one dish of vegetables. We paid a total of \$53. **Use the method of solving equation**, find the price of one bowl of wonton noodles.



(Show your working)

Let the price of one bowl of wonton noodles be \$$y$.

1 mark (68)

1 mark (69)

1 mark (70)

Marker's
Use Only

43. Solve the equation:

$$11y = 143$$

$y =$ ☐

☐
1 mark (71)

44. Solve the equation:

$$9 = \frac{A}{6} - 2$$

$A =$ ☐

☐
1 mark (72)

- END OF PAPER -

Prepared by the Hong Kong Examinations and Assessment Authority