

**Education and Manpower Bureau**  
**Territory-wide System Assessment 2007**  
**Primary 6**  
**Mathematics**

**Instructions:**

1. There are 42 questions in this test.
2. Answer all questions.
3. Time allowed is 50 minutes.
4. Use of calculators is not allowed.
5. Write your answers in this Question-Answer 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 boxes below.

School Code  
學校編號

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(5)

Class  
班別

6	
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Class No.  
班號

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(11)

Write one capital letter in this box  
此格只許填寫一個大楷英文字母

1.  $195 + 585 \div 15 =$

☐ A. 39

☐ B. 52

☐ C. 234

☐ D. 780

(12)

2.  $26 \times (107 - 74) =$  \_\_\_\_\_

1 mark (13)

3.  $4\frac{1}{5} - 3\frac{1}{2} + 2\frac{3}{10} =$

1 mark (14)

4.  $1\frac{4}{5} \div \frac{9}{10} \times 4 =$

1 mark (15)

5.  $2.7 \times 4 \times 3.5 =$  \_\_\_\_\_

1 mark (16)

6. Calculate  $9.4 \div 2.3$ , correct the answer to two decimal places.

Answer: \_\_\_\_\_

1 mark (17)

7. Which of the following numbers is the smallest multiple of 5?

☐ A. 1

☐ B. 5

☐ C. 10

☐ D. 25

(18)

8. 1, 2, 4, 8 are the common factors of

☐ A. 24, 30

☐ B. 42, 48

☐ C. 20, 36

☐ D. 16, 56

(19)

9. The highest common factor (H.C.F.) of 36 and 54 is

\_\_\_\_\_.

1 mark (20)

10. (a) Change  $3\frac{3}{5}$  into an improper fraction.

Answer:



1 mark (21)

(b) Change  $\frac{27}{6}$  into a mixed number.

Answer:



1 mark (22)

11. Fill in each of the following boxes with the sign '>' (larger than), '<' (smaller than) or '=' (equal to).

(a)  $\frac{2}{2}$   2

1 mark (23)

(b)  $4\frac{5}{8}$    $4\frac{7}{12}$

1 mark (24)

(c)  $2\frac{1}{3}$    $\frac{15}{6}$

1 mark (25)

12. In the number 201.635,  
(a) the digit '6' is in the \_\_\_\_\_ place, and  
(b) the digit '0' is in the \_\_\_\_\_ place.

1 mark (26)

1 mark (27)

13. Change 5.72 into a fraction and reduce it to the simplest form.

Answer:



1 mark (28)

14. (a) Change the following fraction into a percentage.

$$1\frac{2}{5} = \text{_____} \%$$

1 mark (29)

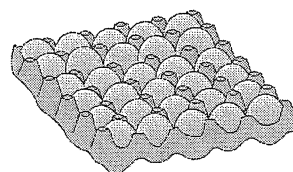
- (b) Change the following percentage into a fraction and reduce it to the simplest form.

$$30.5\% =$$



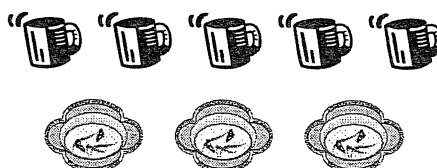
1 mark (30)

15. A hawker buys 200 eggs. 8 of them are rotten and 17 of them are cracked. The eggs that are good make up \_\_\_\_\_ % of all the eggs bought by the hawker.




1 mark (31)

16. The price of 5 cups is the same as that of 3 plates. If each plate costs \$45.50, each cup will cost \$ \_\_\_\_\_.



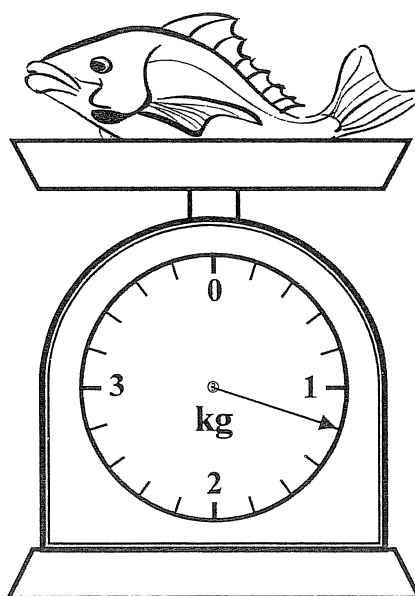

1 mark (32)

17. My uncle goes on a journey with two pieces of luggage. The first one weighs  $13\frac{1}{8}$  kg. The second one weighs  $5\frac{3}{8}$  kg less than the first one. The total weight of the two pieces of luggage is  kg. (Give the answer as a fraction.)

1 mark (33)

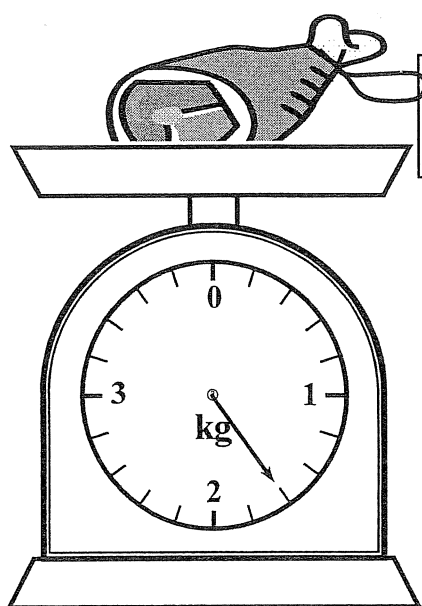
18. One kg of fish costs \$50.00. If mum buys the fish shown on the right, how much should she pay?

Answer: She should pay  
\$ \_\_\_\_\_.




1 mark (34)

19.



154 dollars  
and 40 cents

One kg of ham costs  
\$ \_\_\_\_\_.

1 mark (35)

20. Miss Cheung had 60 pieces of souvenir. She gave one piece to every pupil who took part in the speech contest.

If  $\frac{2}{5}$  of the souvenirs were left after the contest, how many pupils took part in it?

(Show your working)

1 mark (36)

1 mark (37)

1 mark (38)

21. A warship model costs \$91.50. Jack wants to save \$5.20 of his pocket money daily to buy the model. For at least how many days must he save his pocket money so that he can buy the model?

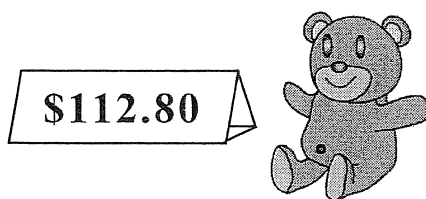
(Show your working)

1 mark (39)

1 mark (40)

1 mark (41)

22. My sister wants to buy a teddy bear in a toy shop.



- (a) The teddy bear costs \_\_\_\_\_ dollars and \_\_\_\_\_ cents.

1 mark (42)

- (b) My sister has

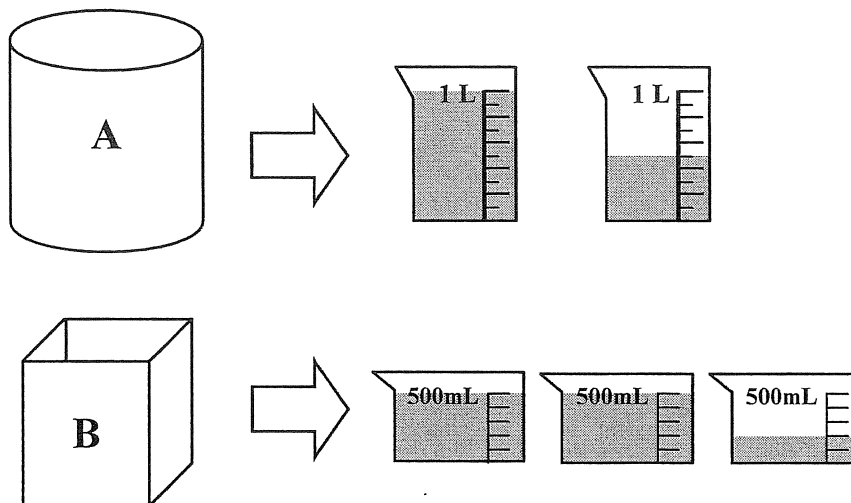


How much more money does she need to buy the teddy bear?

Answer: She needs \_\_\_\_\_ dollars and \_\_\_\_\_ cents more.

1 mark (43)

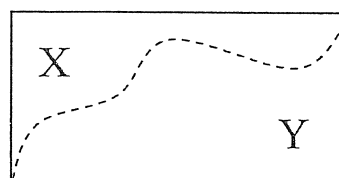
- 23.



Containers A and B are completely filled with water. All the water in the containers is then poured into two different types of beakers (see the diagram above). The capacity of container \_\_\_\_\_ is larger as it can hold \_\_\_\_\_ mL more water than the other container.

1 mark (44)

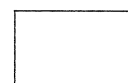
24. The rectangle on the right is cut along the dotted line into two parts, X and Y. Which of the following statements is correct?



- ☐ A. The perimeter of part X is shorter  
☐ B. The perimeter of part Y is shorter  
☐ C. The perimeters of part X and part Y are equal  
☐ D. It is not possible to compare the perimeters of part X and part Y

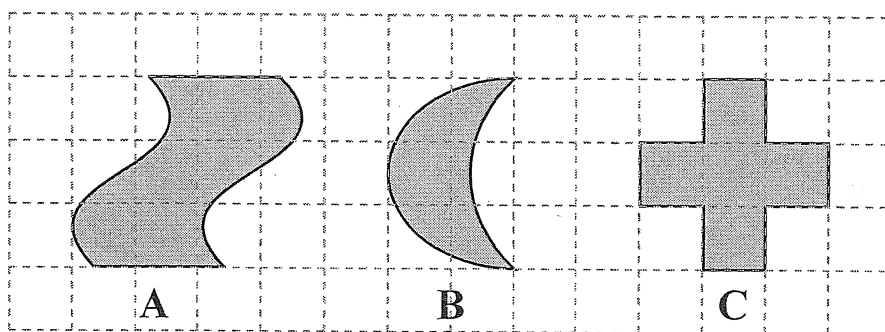
(45)

25. A string is 180 cm long. It can just go around a square 3 times. The side of the square is \_\_\_\_\_ cm long.

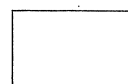


1 mark (46)

26. Compare the areas of the following 2-D shapes A, B and C, and arrange them in ascending order.



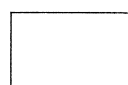
Answer: \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_  
 (Smallest) (Largest)



1 mark (47)

27. The area of a rectangle is  $900 \text{ cm}^2$ . If its length is 36 cm, what is its width?

Answer: Its width is \_\_\_\_\_ cm.

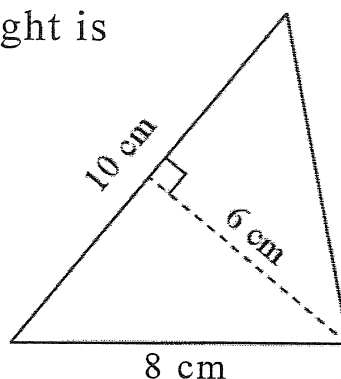


1 mark (48)



28. The area of the triangle on the right is

- ☐ A.  $24 \text{ cm}^2$   
☐ B.  $30 \text{ cm}^2$   
☐ C.  $40 \text{ cm}^2$   
☐ D.  $60 \text{ cm}^2$

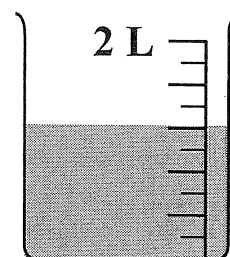


(49)

29. Mum pours some water into a beaker as shown on the right:

The volume of the water is

\_\_\_\_\_. (Give the answer with a unit.)




1 mark (50)

30. A man sets off at 15:40 on a motorcycle that has an average speed of 70 km/h. He arrives at his destination at 16:16.

(a) The motorcycle travels for \_\_\_\_\_ minutes.

(b) How far does the motorcycle travel in km?

(Show your working)

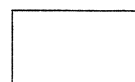
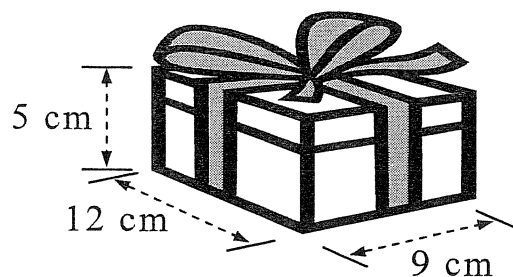
1 mark (51)

1 mark (52)

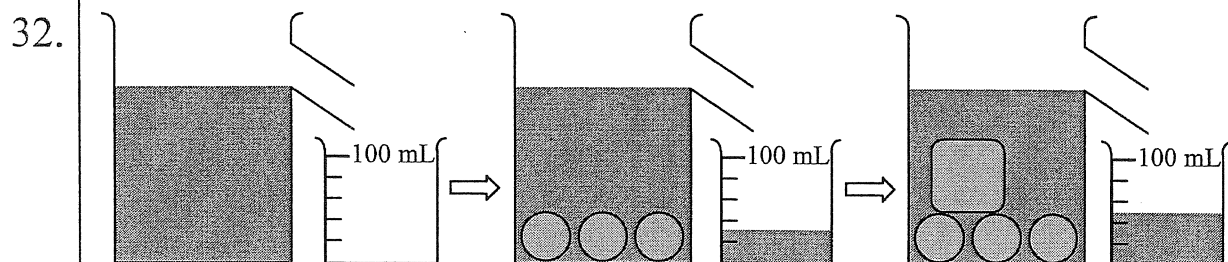
1 mark (53)

1 mark (54)

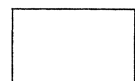
31. The diagram on the right shows a rectangular box. Its volume is \_\_\_\_\_  $\text{cm}^3$ .



1 mark (55)

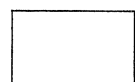


(a) The volume of a  is \_\_\_\_\_  $\text{cm}^3$ .



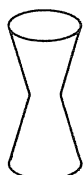
1 mark (56)

(b) The volume of a  is \_\_\_\_\_  $\text{cm}^3$ .

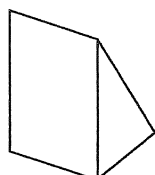


1 mark (57)

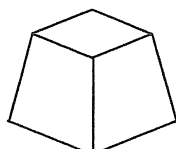
33. Study the following 3-D shapes. Write the letter(s) for the answer.



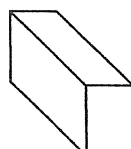
**A**



**B**



**C**



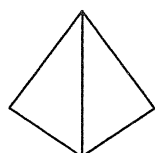
**D**



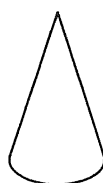
**E**



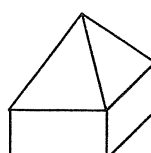
**F**



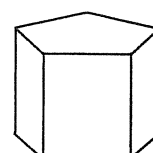
**G**



**H**

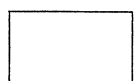


**I**



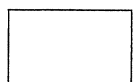
**J**

(a) Prism(s): \_\_\_\_\_



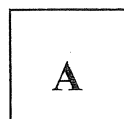
1 mark (58)

(b) Cone(s): \_\_\_\_\_

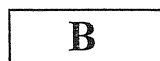


1 mark (59)

34.



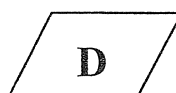
Square



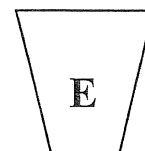
Rectangle



Rhombus



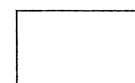
Parallelogram



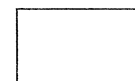
Trapezium

Using the properties given in the table below, write the letter for the answer in each of the blanks.

	4 equal sides	4 equal angles	2 pairs of equal opposite sides	2 pairs of parallel opposite sides	Only 1 pair of parallel opposite sides
(a) Shape _____	✗	✓	✓	✓	✗
(b) Shape _____	✓	✗	✓	✓	✗

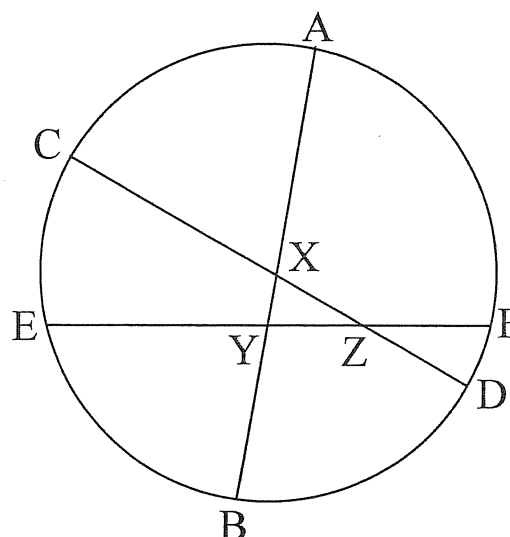


1 mark (60)



1 mark (61)

35. In the diagram on the right, the diameter of the circle is 6 cm. AB is 6 cm, CD is 6 cm and EF is 5.8 cm.



- (a) Which point in the diagram is the centre of the circle?

☐ A. X

☐ B. Y

☐ C. Z

☐ D. None of the above

(62)

- (b) Which of the following straight lines is a radius?

☐ A. AB

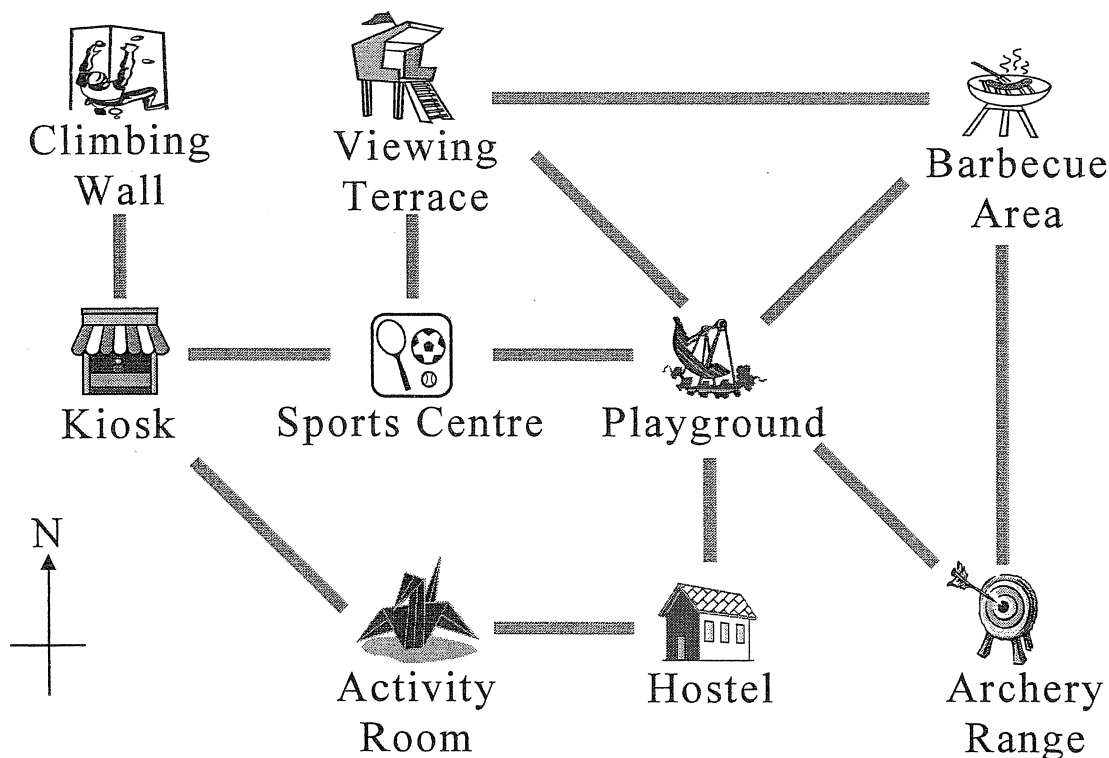
☐ B. YE

☐ C. YF

☐ D. XC

(63)

36.



The diagram above shows the location of all the facilities in a recreation centre.

(a) The Climbing Wall is to the \_\_\_\_\_ of the Barbecue Area.  
(direction)

  
1 mark (64)

(b) The Archery Range is to the \_\_\_\_\_ of the Viewing Terrace.  
(direction)

  
1 mark (65)

(c) The facility to the north-west of the Playground is the \_\_\_\_\_.

  
1 mark (66)

(d) Peter goes from the Activity Room to the Sports Centre. He first goes \_\_\_\_\_, passes the \_\_\_\_\_, and then goes \_\_\_\_\_ to reach the Sports Centre.  
(direction) (direction)

  
1 mark (67)

37. Mary has 5 pencils and  $x$  coloured pens ( $x > 5$ ). She has \_\_\_\_\_ more coloured pens than pencils.

  
1 mark (68)

38. Solve the equation:

$$30 - J = 16$$

$$J = \boxed{\phantom{000}}$$

1 mark (69)

39. Solve the equation:

$$3a + 2.6 = 5.9$$

$$a = \boxed{\phantom{000}}$$

1 mark (70)

40. Mr. Ma goes to a restaurant for lunch with 3 friends. According to the Dim Sum Record, how much, on average, does each person have to pay?

<u>Healthy Restaurant</u> Dim Sum Price List	
Small	— — — \$12.00
Medium	— — — \$20.00
Large	— — — \$32.00
Special	— — — \$40.00
(Free tea and no 10% service charge during lunch)	

<u>Healthy Restaurant</u> Dim Sum Record	
Table: 15	
Small	<div> <div>✓</div> <div>✓</div> <div>✓</div> </div>
Medium	<div> <div>✓</div> <div>✓</div> <div>✓</div> </div>
Large	<div> <div>✓</div> <div>✓</div> </div>
Special	<div> <div>✓</div> <div>✓</div> </div>
Please keep this card clean.	

Answer: On average, each person has to pay \$ \_\_\_\_\_.

1 mark (71)

41. The following table shows the sales of the best-selling books at Wisdom Bookstore in June.

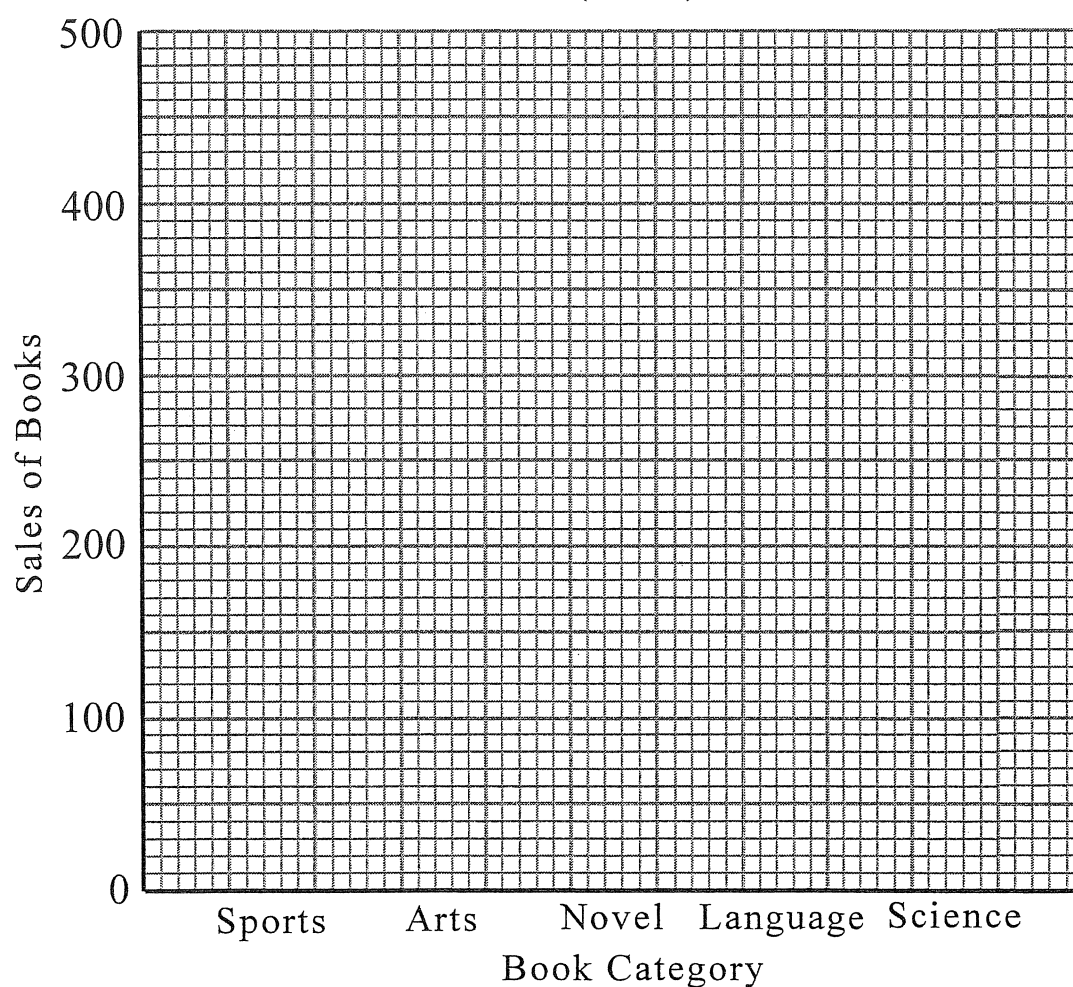
Book Category	Sports	Arts	Novel	Language	Science
Sales of Books	251	324	457	363	420
Rounded to the nearest tens					

1 mark (72)

- (a) Round off the sales of books to the nearest tens and complete the above table.
- (b) Use the rounded data to construct a bar chart and give it a suitable title.

(Title)


1 mark (73)

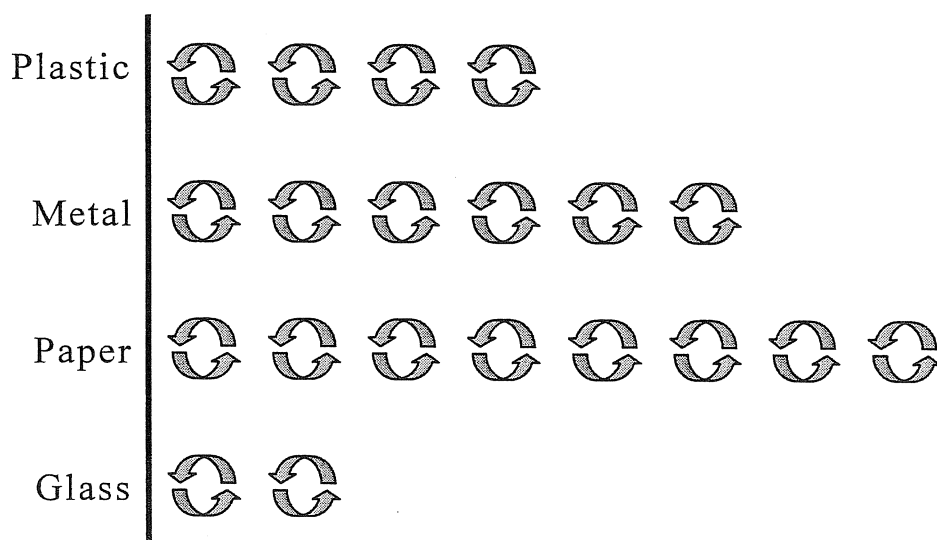



1 mark (74)

42. The following pictogram shows the weight of waste collected by a recycling company this week.

### The Weight of Waste Collected This Week

Each  represents 1 000 kg



- (a) The weight of glass collected is \_\_\_\_\_ kg.
- (b) The weight of metal collected is \_\_\_\_\_ times that of plastic collected.
- (c) The weight of paper collected is \_\_\_\_\_ % of the total weight of all the waste collected.
- (d) Among the metal collected,  $\frac{2}{3}$  of its weight is aluminum cans, which is \_\_\_\_\_ kg.

  
1 mark (75)

  
1 mark (76)

  
1 mark (77)

  
1 mark (78)

— END OF PAPER —

