6	M	E	4

(1)

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

Instructions:

1. There are 43 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.

$\frac{3}{9}$ $\frac{6}{6}$ $\frac{8}{4}$ $\frac{11}{11}$ 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. Change $3\frac{7}{11}$ into a decimal number, correct your answer to 2 decimal places.

Answer: _____

1 mark (26)

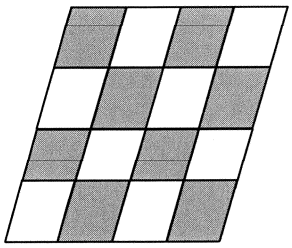
15. 3 is the highest common factor of

○ A. 1, 3 ○ B. 9, 27

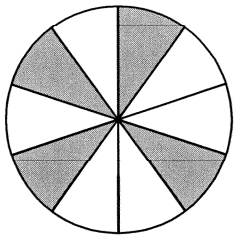
○ C. 12, 21 ○ D. 18, 24

(27)

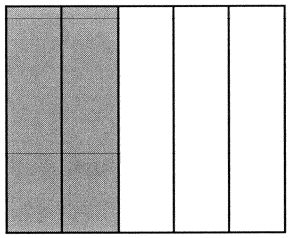
16. Which of the following figures show 40% of the whole figure shaded? Fill in the blank with the letters for the answer.



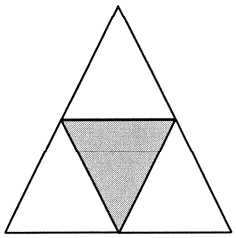
A



B



C



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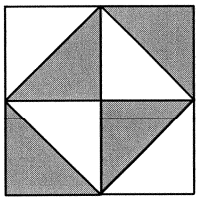


E

Answer: _____

1 mark (28)

17. Best Plaza has 84 shops. $\frac{3}{4}$ of all the shops are occupied. How many shops are **not** occupied?

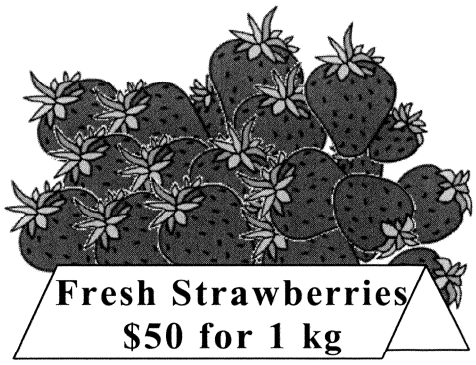
Answer: _____ shops are **not** occupied.

1 mark (29)

Marker's Use Only

18. My mother used 72 dollars and 50 cents to buy some strawberries. How many kilograms of strawberries did she buy?

(Show your working)



1 mark (30)

1 mark (31)

1 mark (32)

19. Today when customers buy 3 boxes of fresh milk, they get one extra box free of charge. In this case, what is the average price of one box of milk?

(Show your working)

1 mark (33)

1 mark (34)

1 mark (35)

Go on to the next page

Marker's Use Only

20. A school held an activity to collect old books. The numbers of different types of old books collected are as follows:

Types	Quantity
Textbooks	240
Cartoons	312
Idiom story books	48

Find the percentage of the total number of collected old books that are textbooks.

(Show your working)

1 mark (36)

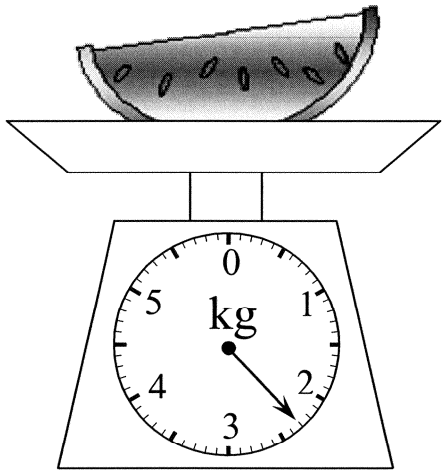
21. Workers are repairing a road which is 2.8 km long. On average, they repair 0.7 km in a day. How many days are needed to repair the road?

Answer: _____ days are needed to repair the road.

1 mark (37)

1 mark (38)

22. The weight of the water-melon is _____ kg.

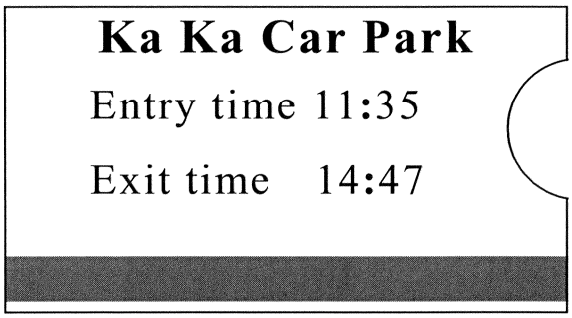


1 mark (39)

1 mark (40)

Marker's Use Only

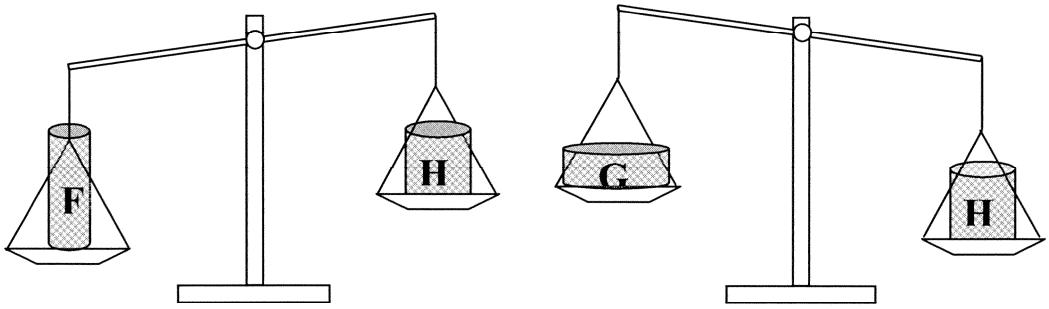
23. This is a car park ticket for my father's car. How long has he parked his car?



Answer: He has parked for _____ hours _____ minutes.

1 mark (41)

24.



Compare the weights of the three tins F, G and H. Which of the following statements is correct?

○ A. H is the heaviest

○ B. F is lighter than H

○ C. F is heavier than G

○ D. G and H have the same weight

(42)

25. The diameter of a circle is 1 cm. Its circumference is approximately _____ cm.
(The answer must be a whole number)

1 mark (43)

Go on to the next page

Marker's Use Only

26. Circle the months which have 30 days only.

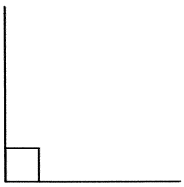
January	February	March	April
May	June	July	August
September	October	November	December

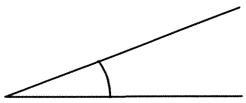
1 mark (44)

27. Arrange the following four angles in ascending order.

A.

B.

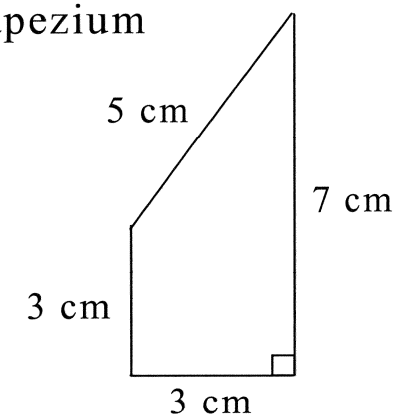
C. 

D. 

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

1 mark (45)

28. What is the area of the trapezium on the right?



- ○ A. 15 cm^2
- ○ B. 18 cm^2
- ○ C. 25 cm^2
- ○ D. 30 cm^2

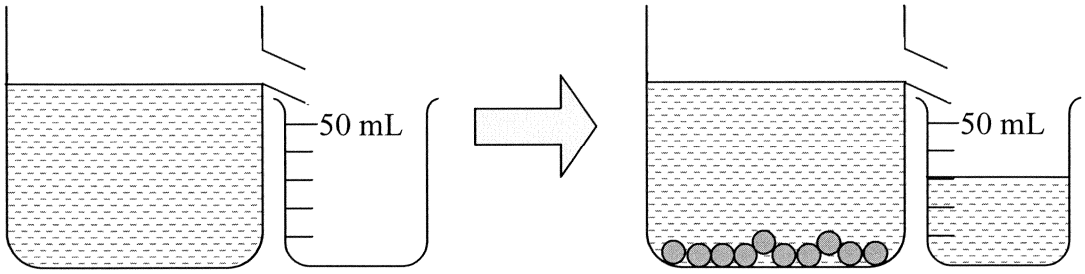
(46)

29. The average of 18.5, 22.8, 27.7 and 31 is _____ .

1 mark (47)

Marker's Use Only

30. When 10 marbles are dropped into the displacement can, 30 mL of water is displaced into the beaker. What is the volume of one marble?



Answer: The volume of one marble is _____ cm^3.

1 mark (48)

31. Solve the equation:

$3.8 + x = 6.2$

$x =$ ☐

1 mark (49)

32. Paul took part in a fund-raising walk. The whole journey was 3 km. He set off at 9:00 a.m. and finished at 10:30 a.m. What was Paul's average walking speed?

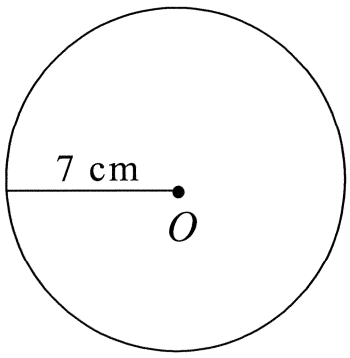
○ A. 0.5 km/h ○ B. 1.5 km/h

○ C. 2 km/h ○ D. 4.5 km/h

(50)

33. In the figure on the right, O is the centre of the circle. What is its circumference?

(Take π as $\frac{22}{7}$)



Answer: Its circumference is

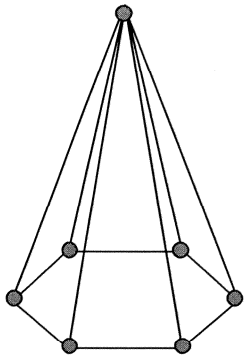
_____ cm.

1 mark (51)

Go on to the next page

Marker's Use Only

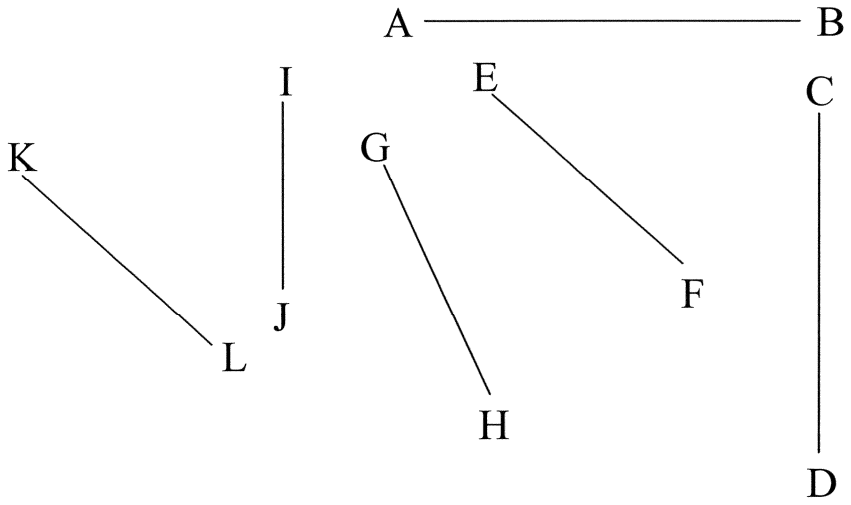
34. The solid figure on the right is a



- ◯ A. heptagonal pyramid
- ◯ B. heptagonal prism
- ◯ C. hexagonal pyramid
- ◯ D. hexagonal prism

(52)

35.



In the figure above,

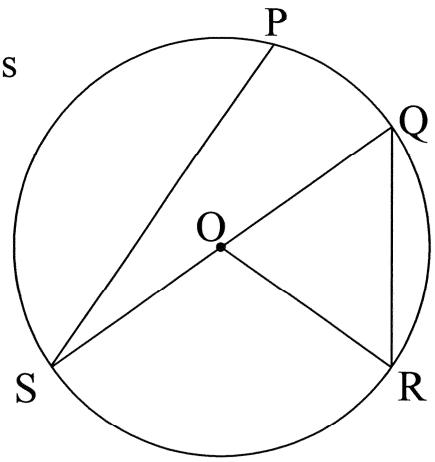
(a) straight line _____ is parallel to the straight line CD.

1 mark (53)

(b) straight line _____ is parallel to the straight line EF.

1 mark (54)

36. In the figure on the right, O is the centre. Which straight line is a diameter?



- ◯ A. Straight line SP
- ◯ B. Straight line QR
- ◯ C. Straight line SQ
- ◯ D. Straight line OR

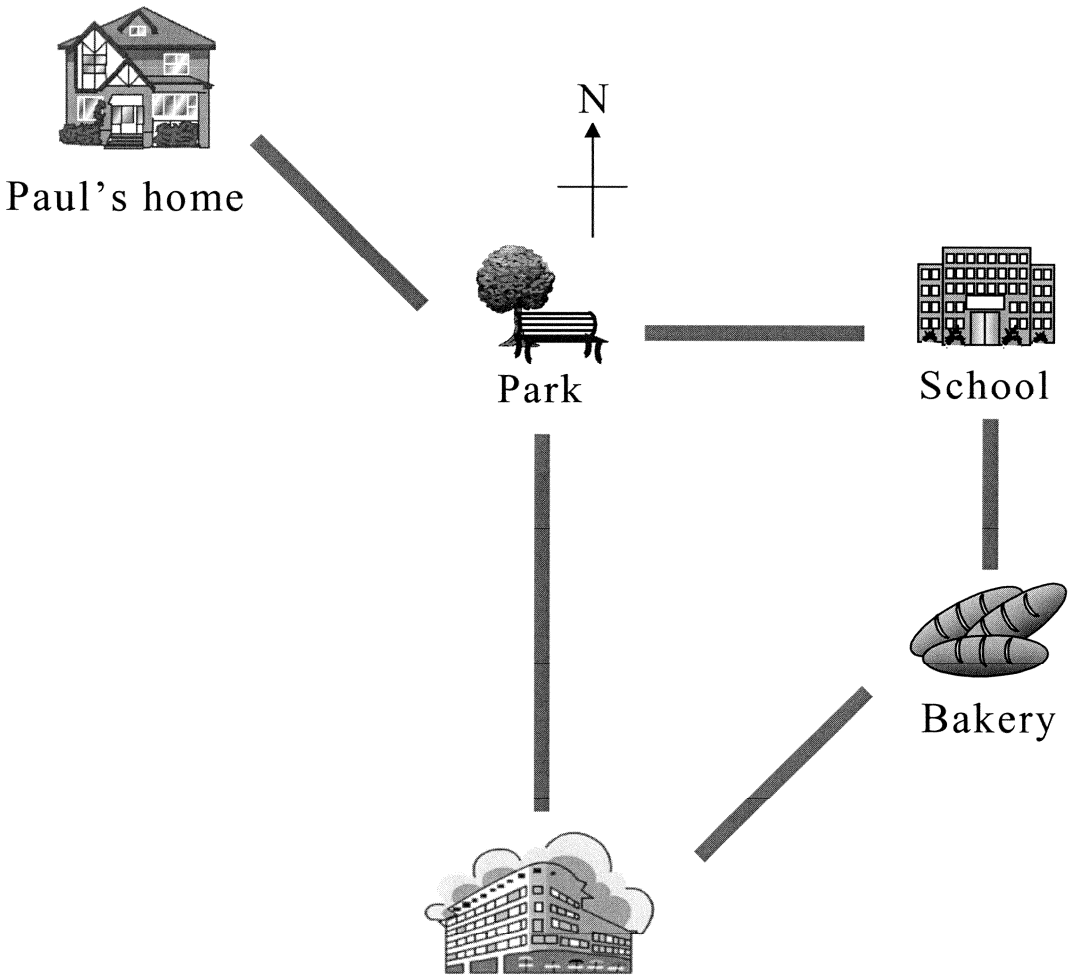
(55)

Marker's Use Only

37. The area of a rectangle 12 cm long and 8 cm wide is _____ cm^2.

1 mark (56)

38.



(a) Paul starts from home. He walks towards the _____ direction and comes to the park. Then he walks due _____ to go to the school.

1 mark (57)

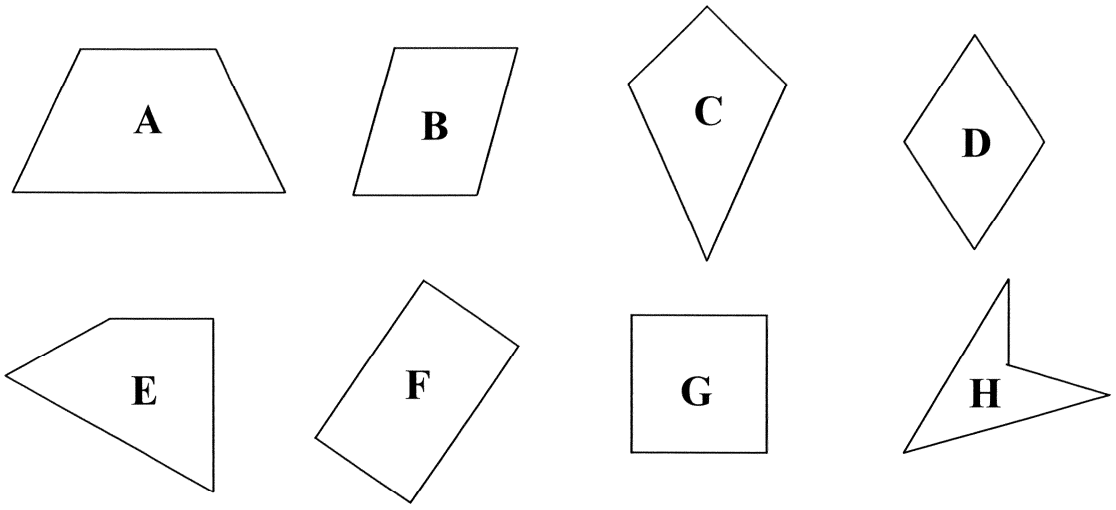
(b) Amy starts from home. She walks towards the _____ direction and comes to the bakery. Then she walks due _____ to go to the school.

1 mark (58)

Go on to the next page

Marker's Use Only

39.



(a) Which of the quadrilaterals shown above has only one pair of opposite sides parallel to each other?

Answer: _____ has only one pair of opposite sides parallel to each other.

It is a * trapezium / parallelogram / rhombus.

(* Circle the correct answer)

1 mark (59)

(b) Which of the quadrilaterals shown above have four equal sides?

Answer: _____ and _____ have four equal sides.

1 mark (60)

(c) Which of the quadrilaterals shown above have four right angles and two pairs of opposite sides parallel to each other?

Answer: _____ and _____ have four right angles and two pairs of opposite sides parallel to each other.

1 mark (61)

40. Solve the equation:

$$10.5 = 3 + 5y$$

$y =$ ☐

1 mark (62)

Marker's
Use Only

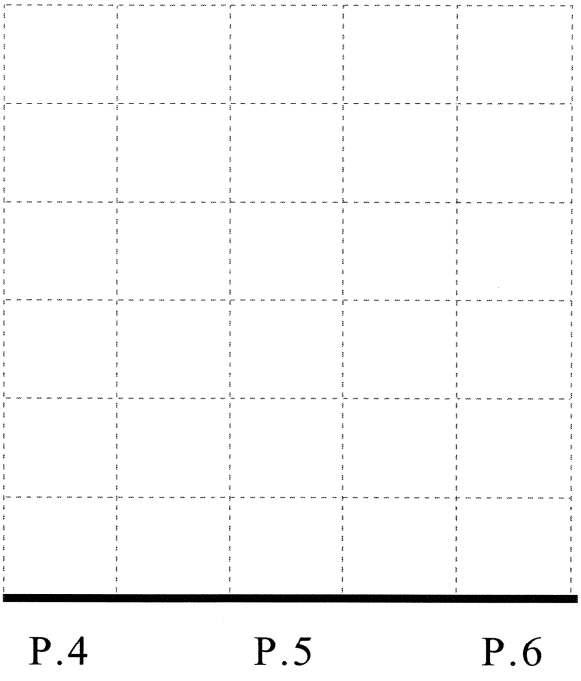
41. The following table shows the number of parents of Primary 4 to Primary 6 pupils attending a talk given by the school.

Class Level	P.4	P.5	P.6
Number of parents	40	20	30

Construct a pictogram from the above information, using one ☺ to stand for 10 parents.

Number of Parents Attending the Talk

One ☺ stands for 10 parents



Class Level

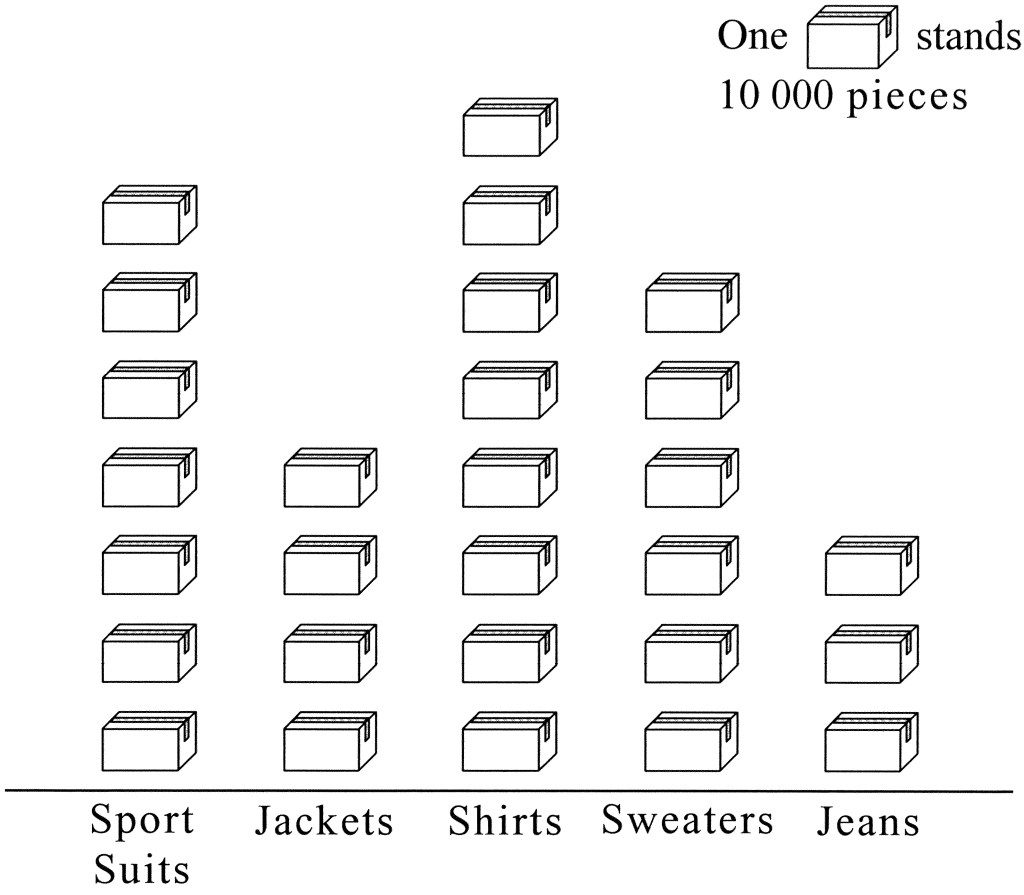
1 mark (63)

Go on to the next page

Marker's
Use Only

42. The pictogram below shows the sales of various types of clothes by Leon Garment Factory last year.

Sales of Various Types of Clothes



(a) The type of clothes with the largest sales is _____, of which _____ pieces were sold.

1 mark (64)

(b) The sales of jeans is _____ % of the sales of jackets.

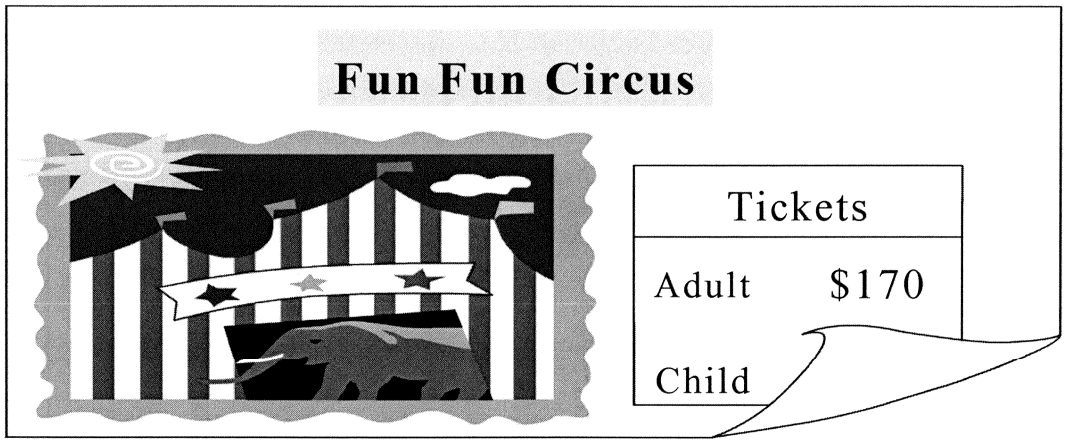
1 mark (65)

(c) The total sales of all the types of clothes last year is _____ pieces.

1 mark (66)

Marker's Use Only

43.



(a) The price of an adult ticket is \$10 less than twice the price of a child ticket.

Let the price of a child ticket be \$$y$. Which of the following equations can be used to find the price of a child ticket?

○ A. $y - 10 \times 2 = 170$

○ B. $(y - 10) \times 2 = 170$

○ C. $2y - 10 = 170$

○ D. $2y + 10 = 170$

(67)

(b) What is the price of a child ticket?

Answer: The price of a child ticket is \$ _____ .

1 mark (68)

- END OF PAPER -

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