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Education Bureau Territory-wide System Assessment 2010 Primary 6 Mathematics

Instructions:

1. Stick barcode labels on pages 1, 3, 5, 7 and 9 in the spaces provided.
2. There are 42 questions in this test. Answer all questions.
3. Time allowed is 50 minutes.
4. Write your answers in this Question-Answer Booklet.
5. Do not write in the margins.
6. Use of calculators is not allowed.
7. Do your rough work on the rough work sheet provided.
8. Write your School Code, Class and Class Number in the boxes below.

Instructions:

- (a) Multiple choice questions – Blacken the circle next to the correct answer with an **HB pencil**.
For example:

- A
- B
- C
- D

- (b) Questions in which you are asked to “show your working” – Write your mathematical expressions/equations, answers and statements/conclusions in the spaces provided. There is NO need to show your rough work.

- (c) Other types of questions – Answer as required in the spaces provided.

School Code
學校編號

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Class
班別

6	
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Class
No.
班號

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

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1. Which of the following numbers has the digit '6' in the thousands place and the digit '2' in the units place?

- A. 602
- B. 620
- C. 6002
- D. 6020

2. Which of the following numbers is a multiple of 8?

- A. 1
- B. 4
- C. 8
- D. 12

3. List all the factors of 81.

Answer: _____

4. Fill in each of the following boxes with the correct number.

(a)

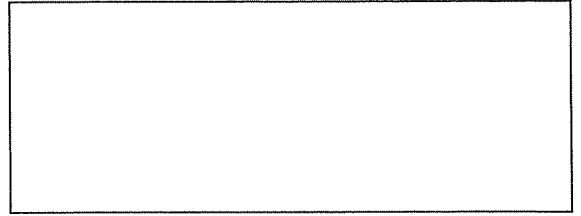
$$\begin{array}{r} 15 \\ \hline \square \end{array} = 3$$

(b)

$$\begin{array}{r} \square \\ \hline 15 \end{array} = 3$$

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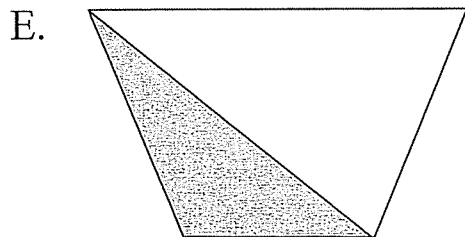
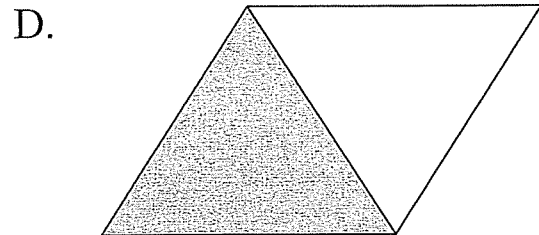
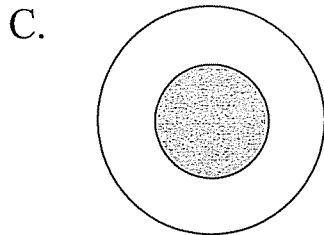
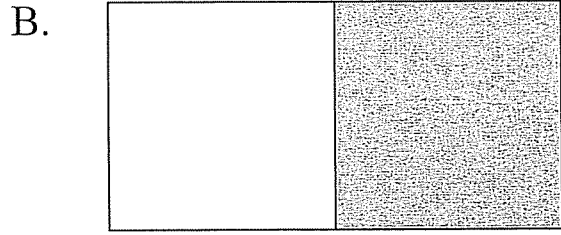
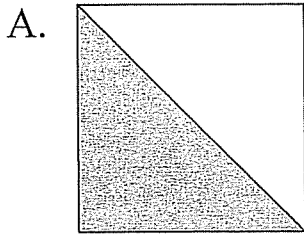
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5. (a) Within 50, the common multiples of 12 and 24 are _____ .

(b) The Least Common Multiple (L.C.M.) of 12 and 24 is _____ .

6. Which of the following have $\frac{1}{2}$ of the whole figure shaded ?



Answer: _____

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7. (a) Change $1\frac{11}{13}$ into an improper fraction.

Answer:

- (b) Change $\frac{22}{4}$ into a mixed number.

Answer:

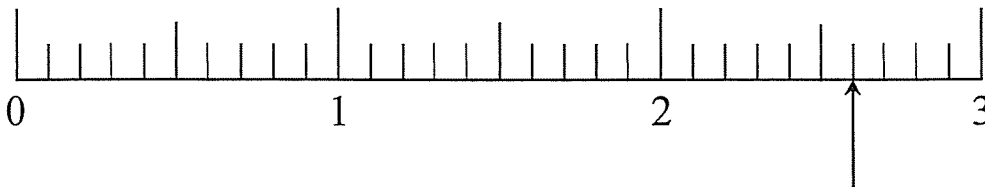
8. Which of the following fractions is the smallest?

$$\frac{9}{5}, \quad \frac{9}{7}, \quad \frac{13}{7}$$

Answer:

9. $901 - (101 - 82) = \underline{\hspace{2cm}}$

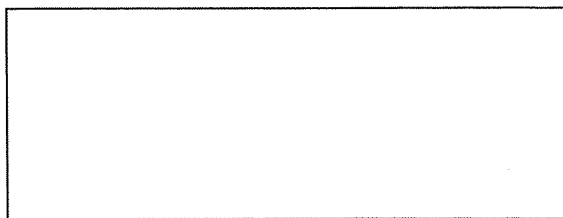
10. The marks in the following figure are equally spaced. Use a decimal to show the mark pointed by the arrow.



Answer:

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11. In the number 45.28, which digit stands for the smallest value?

- A. '2'
- B. '4'
- C. '5'
- D. '8'

12. $218 - 18 \times 7 =$ _____

13. $4\frac{1}{6} - 2\frac{5}{6} =$

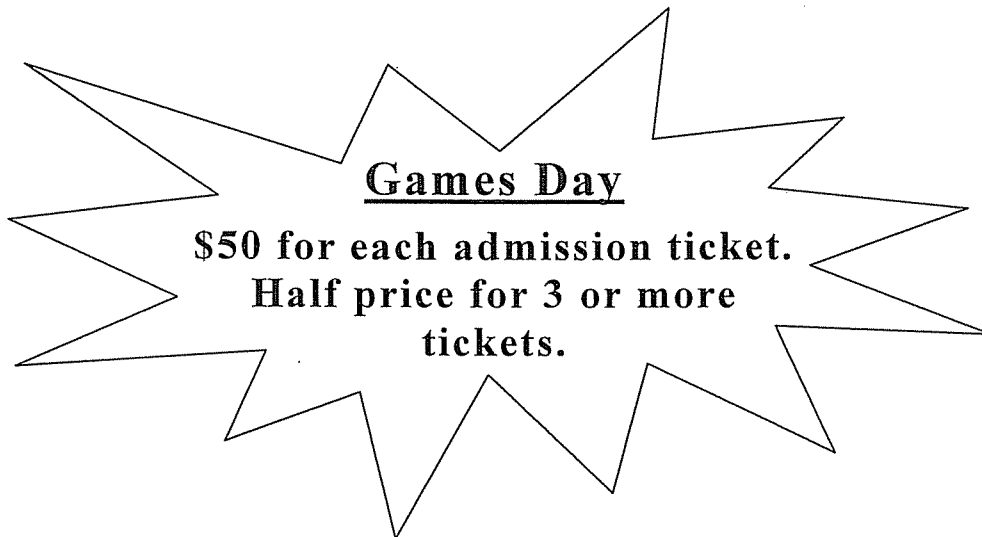
14. $\frac{2}{5} \times \frac{3}{8} \div 15 =$

15. $7.5 - 6.37 + 1.07 =$ _____

16. $30 \times 5.3 \times 0.9 =$ _____

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17.



Peter, Paul and Sally are going to the Games Day. How much should they pay altogether?
(show your working)

18. (a) Change $\frac{9}{20}$ into a percentage.

Answer: _____ %

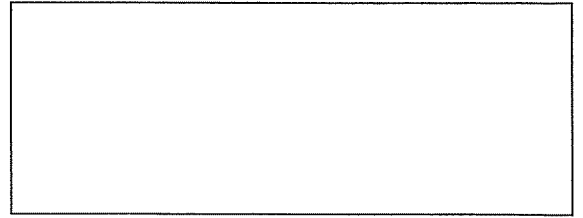
(b) Change 236% into a fraction and reduce it to the simplest form.

Answer:

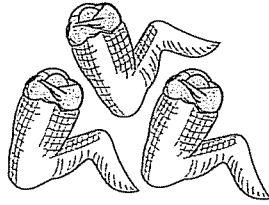
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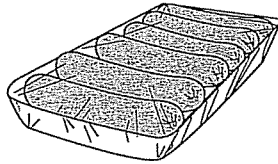
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19.



\$15.00 per kg



\$8.90 per pack

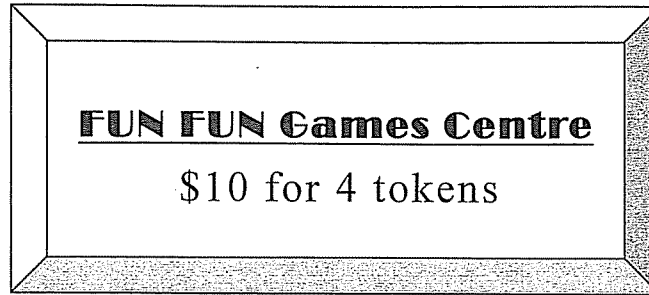
Mother gave Karen \$50 to buy 2.5 kg of chicken wings and one pack of sausages.

- (a) Karen spent \$ _____ on the chicken wings.
- (b) How much should Karen get back after she bought the chicken wings and the sausages?
(show your working)

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20.



Yoyo has 27 dollars and 50 cents. She needs

_____ dollars and _____ cents more to buy
12 tokens.

21. A school has 960 students. 12.5% of all the students join the swimming class. The number of students who join the swimming class is _____.

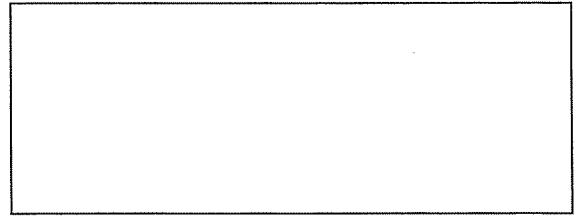
22. Fill in each blank with a suitable unit of measurement.

(a) The diameter of a pizza is about 28 _____.

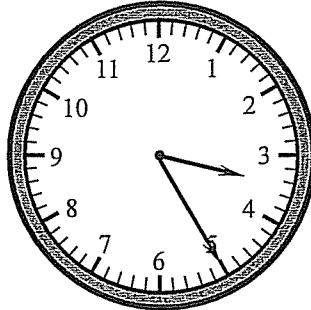
(b) The capacity of a paper cup is about 200 _____.

(c) The weight of a mobile phone is about 110 _____.

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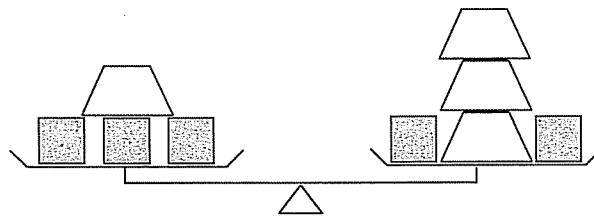


23.











- (a) The clock above showed the time Sarah left for the airport in the afternoon. The time was _____ : _____ p.m.
- (b) Sarah arrived at the airport after 45 minutes. In '24-hour time', she arrived at _____ : _____ .

24.



Which of the following statements is correct?

- A. The weights of  and  are equal.
- B.  is lighter than .
- C.  is lighter than .
- D. The weights of  and  cannot be compared.

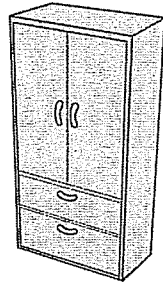
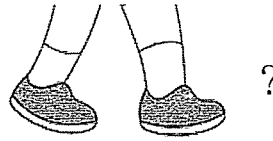
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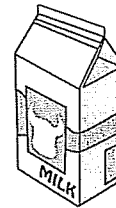
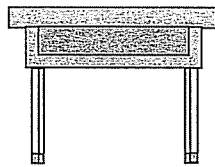
25. Which of the following is most suitable to be

measured with 'stride length'



A. Height of a wardrobe

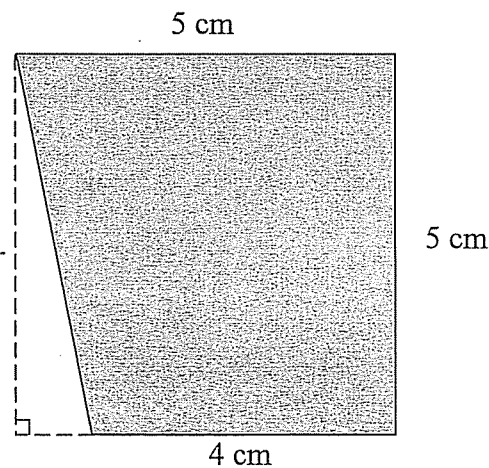
B. Distance between two buildings



C. Length of a student's desk

D. Width of a carton of drink

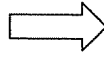
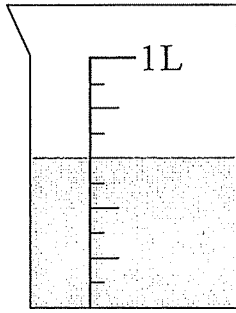
26.



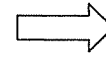
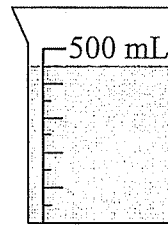
A triangle is cut away from a piece of square paper. The area of the remaining part is _____ cm^2 .

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27.



A



B

- (a) All the water in Beaker A just fills up the milk bottle.
The capacity of the milk bottle is _____ L.
- (b) All the water in Beaker B just fills up the soft drink bottle. The capacity of the soft drink bottle is _____ mL.
- (c) The capacity of the milk bottle is
* larger than / smaller than / equal to
that of the soft drink bottle. (*circle the answer)

28. The circumference of a circle is 6 m.

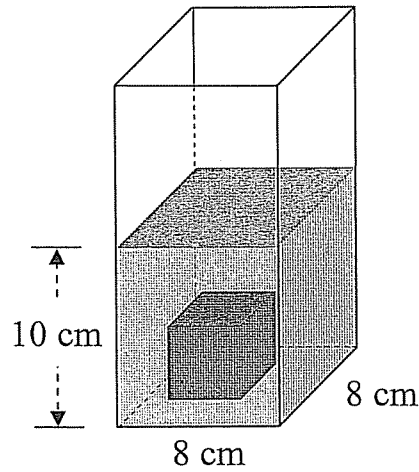
Its diameter is about _____ m.
(give the answer as a whole number)

29. The average speed of a tram is about 30 _____.
(write a suitable unit)

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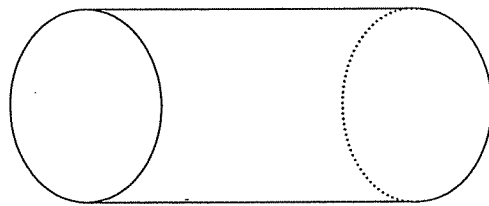
30.



In the above diagram, a cube with sides of 4 cm is immersed in water.

- (a) The volume of the cube is _____ .
(give the answer with a unit)
- (b) If Mandy takes away the cube, the water level of the rectangular container drops by _____ cm.

31.



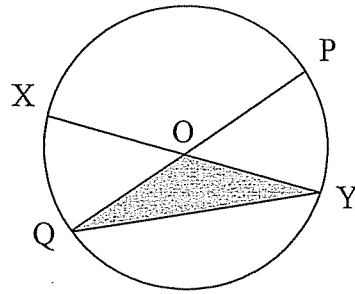
The above 3-D shape is a _____ .

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Please do not write in the margin.

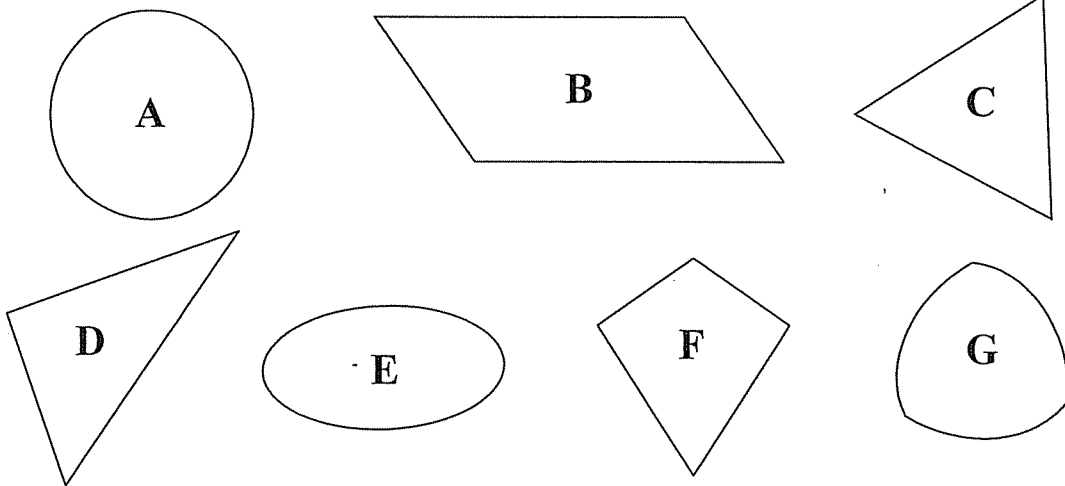
32. O is the centre of the figure below.



(a) Straight line XY is a _____ of the circle.

(b) The shaded part of the figure above is
* an equilateral / a right-angled / an isosceles
triangle. (*circle the answer)

33. Study the following 2-D shapes. Write the letter(s) for the answer.



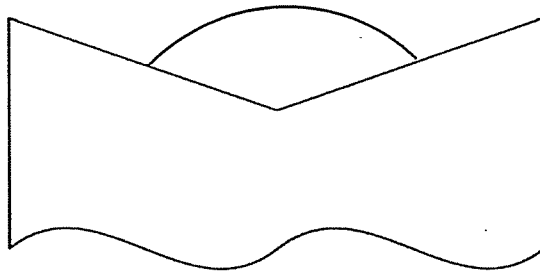
(a) Equilateral triangle: _____

(b) Circle: _____

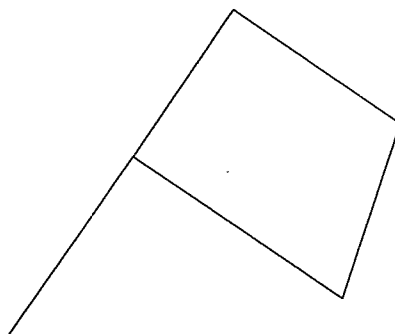
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34. Study the 2-D figures below.

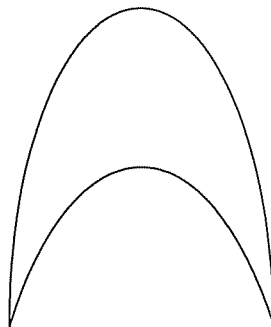
(a) The figure below has * straight lines / curves / parallel lines / perpendicular lines. (* circle all the answers)



(b) The figure below has * straight lines / curves / parallel lines / perpendicular lines. (* circle all the answers)



(c) The figure below has * straight lines / curves / parallel lines / perpendicular lines. (* circle all the answers)

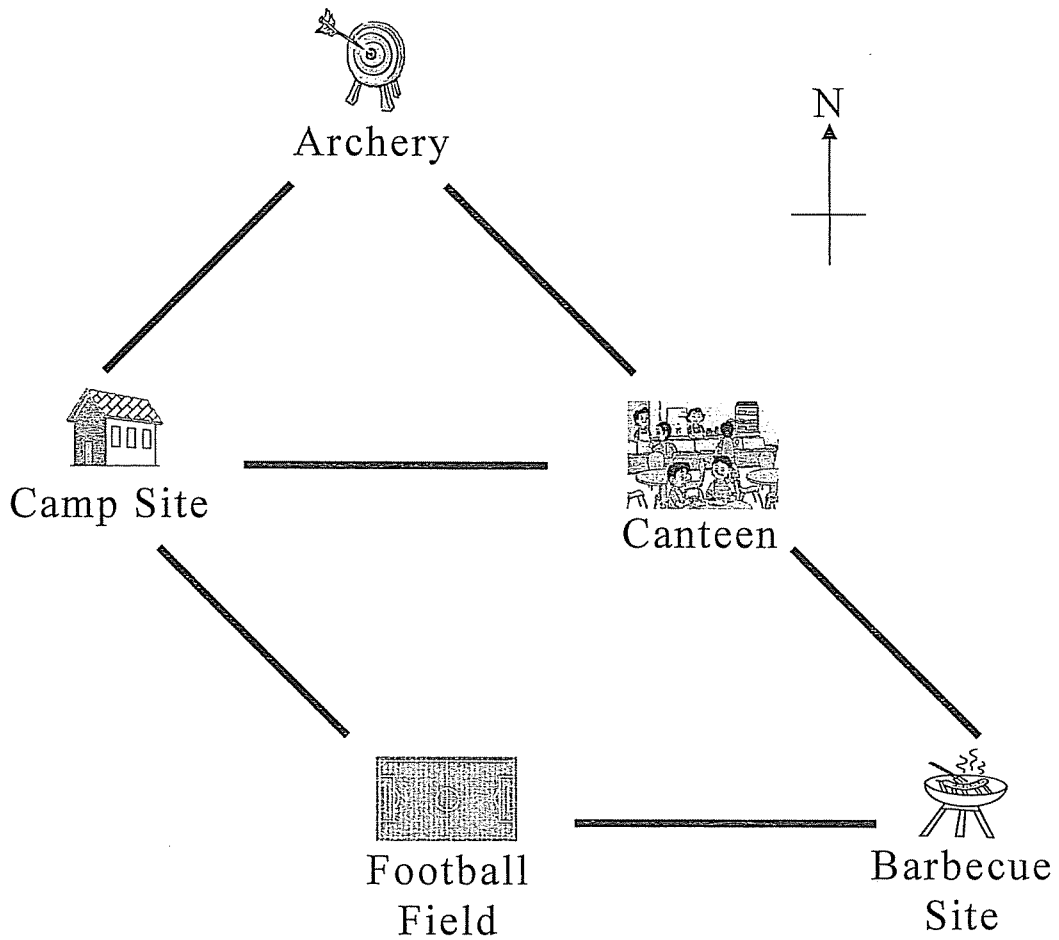


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35.

The Map of Holiday Village



- (a) From the Canteen, Victor goes _____ to the
(direction)
Camp Site. Then he turns _____ to the
(direction)
Football Field.
- (b) The Archery is to the _____ of the
(direction)
Barbecue Site.

36. $16x = 176$

$x =$

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37. Which of the following is an equation?

A. $4 - \frac{y}{2}$

B. $5 + R = 5$

C. $7 \times 3 = 21$

D. $\frac{18}{3} = 3 + 3$

38. $2t - \frac{2}{5} = 3\frac{3}{5}$

$t =$

39. Tom has \$80 pocket money. $\frac{2}{5}$ of Jack's pocket money is \$10 more than Tom's. Find Jack's pocket money by the **method of solving an equation**. (show your working)

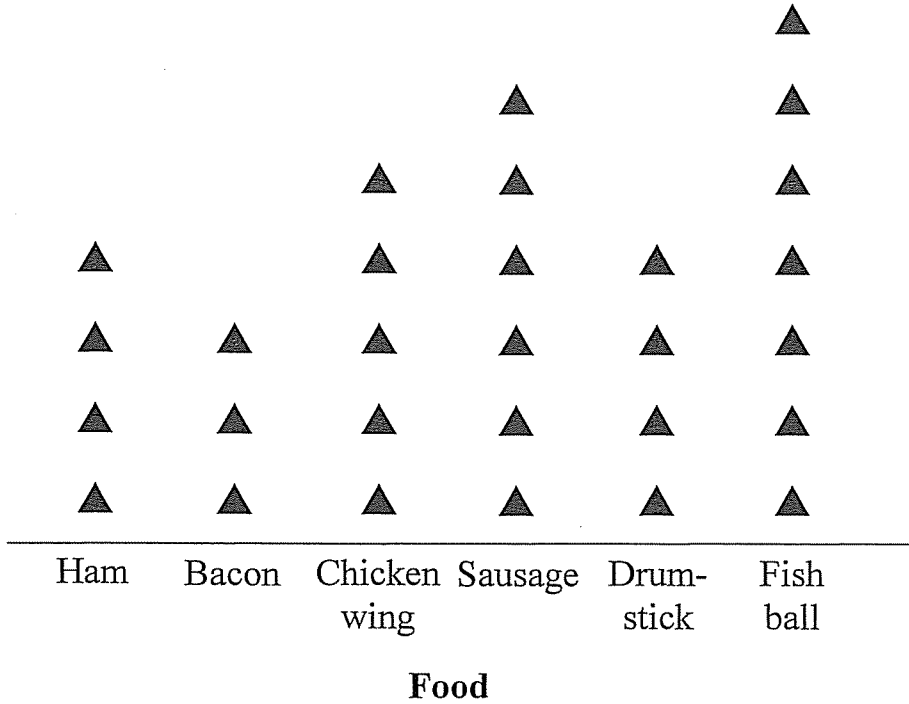
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40. The pictogram below shows the sales of food in a supermarket yesterday.

The Sales of Food in a Supermarket Yesterday

Each ▲ stands for 100 packs



(a) The kind of food with the greatest sales yesterday was _____ .
 _____ packs were sold.

(b) Is it suitable to use 1 ▲ to stand for 1 pack of food to draw the pictogram? Why?

Answer: It is * suitable / not suitable (*circle the answer) because _____

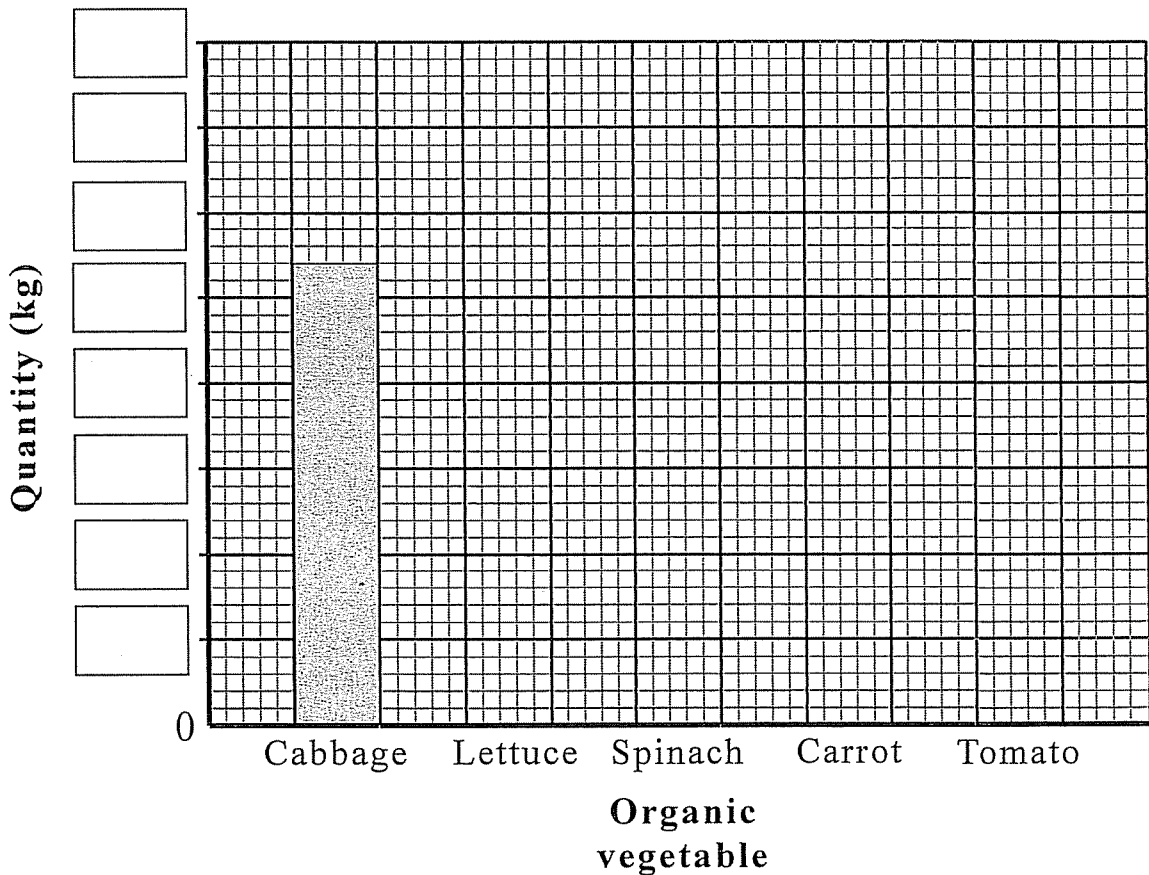
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41. The following table shows the quantities of organic vegetables consumed by Healthy Restaurant last week.

Organic vegetable	Cabbage	Lettuce	Spinach	Carrot	Tomato
Quantity (kg)	54	48	38	72	66

According to the data above, construct a bar chart. Give it a suitable title and fill in the blanks.

(Title)



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42. The following tables show the weights of three boys and two girls.

Weights of boys	
Tom	30 kg
John	35 kg
Dick	34 kg

Weights of girls	
Mary	29 kg
Ann	33 kg

- (a) The average weight of the boys is _____ kg.
- (b) The average weight of the girls is _____ kg.
- (c) The average weight of all the above children is
_____ kg.

— END OF PAPER —

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