* 6 M E 4 *

6	M	E	4

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Please stick the barcode label in the box

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 44 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				**Class** 班別	6		**Class No.** 班號		

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

1. Which of the following numbers is a common factor of 10 and 27?

○ A. 1

○ B. 10

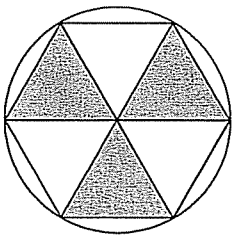
○ C. 27

○ D. 270

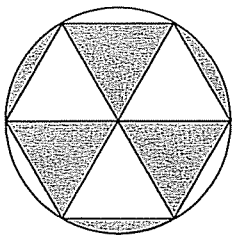
2. Which of the following numbers are common multiples of 9 and 12? (circle the answers)

1 **3** **36** **54** **72**

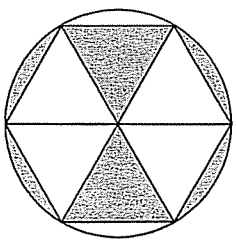
3. Which of the following figures has $\frac{1}{2}$ of the whole shaded ?



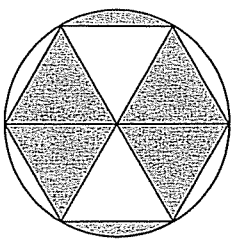
○ A.



○ B.



○ C.



○ D.

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4. (a) List all the common factors of 28 and 42.

Answer: _____

(b) The Highest Common Factor (H.C.F.) of 28 and 42 is _____ .

5. Write 'twenty thousand and sixty' in numerals.

Answer: _____

6.

Special Price

$60 for 4 pairs of socks

Mother bought 12 pairs of socks. How much did she pay?

- ○ A. $15
- ○ B. $20
- ○ C. $180
- ○ D. $240

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7. Which of the following fractions is the largest?

$3\frac{3}{5}$, $3\frac{3}{4}$, $2\frac{1}{2}$

Answer: ☐

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

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

9. Change $\frac{11}{25}$ into a decimal.

Answer: _____

10. $28 \times 132 =$ _____

11. $15 \div 6 \times 12 =$ _____

12. $4\frac{3}{8} + 3\frac{3}{10} =$ ☐

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13. $10 - 4 \div \frac{1}{2} =$

○ A. 2
○ B. 3
○ C. 8
○ D. 12

14. $0.6 \div 0.4 =$ _____

15. $(3.7 + 4.9) \times 6.8 =$ _____

16. In a supermarket, Mother bought $3\frac{5}{9}$ kg of beef, $1\frac{1}{9}$ kg of pork and $1\frac{4}{9}$ kg of chicken.

(a) Mother bought a total of _____ kg of meat.

(b) If all the meat was sold at $36 per kilogram and Mother paid $300 for the meat, the change was $ _____ .

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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. There are 30 L of corn soup. $\frac{2}{5}$ of the corn soup is poured evenly into 36 bowls.

Each bowl contains ☐ L of corn soup.

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19. Delia Restaurant started the lunch buffet at 11:00 in the morning.

LUNCH BUFFET
$79.90 each

Pay the bill before 12:00 noon:
Less $10 for each person

Mary and her mother had the lunch buffet and paid the bill at 11:50 a.m. They should pay $ _____ .

20. Owen finished 19 mathematics questions in 9.8 minutes. Which of the following expressions is most suitable for estimating the time taken in minutes by Owen to finish one question?

- ○ A. $9 \div 20$
- ○ B. $9 \div 10$
- ○ C. $10 \div 20$
- ○ D. $10 \div 10$

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 _____ .

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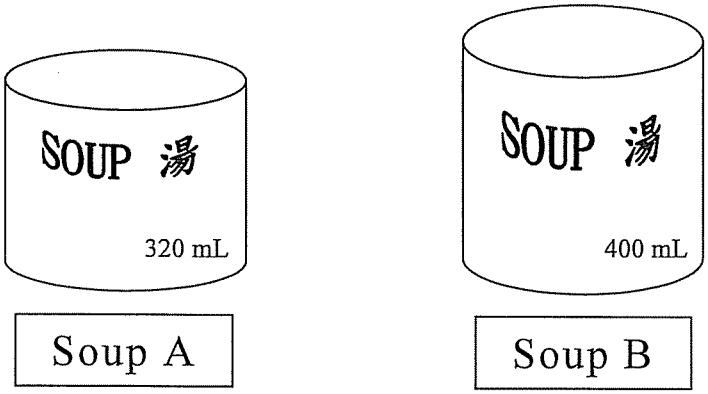
22. (a) Change 198% into a decimal.

Answer: _____

(b) Change 0.001 into a percentage.

Answer: _____ %

23.



Soup A　　Soup B

The capacities of canned soup A and soup B are 320 mL and 400 mL respectively. What percentage of the capacity of soup B is the capacity of soup A?
(show your working)

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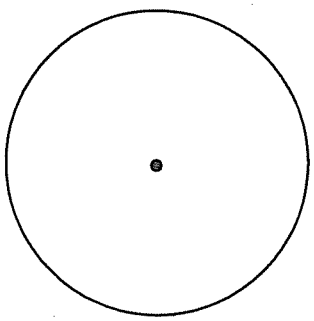
24. The figure on the right is a circle and its centre.



(a) Draw a radius on the circle.

(b) Use a ruler to measure the length of the radius.

Answer: The length of the radius is about _____ mm.

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

(a) The length of the railway from Hung Hom to Lo Wu is about 42 _____ .

(b) The body weight of an adult is about 65 _____ .

(c) The capacity of a water bottle is about 400 _____ .

26. The circumference of a swimming pool for children is 62.8 m. Find its diameter. (take π as 3.14)

Answer: Its diameter is _____ m.

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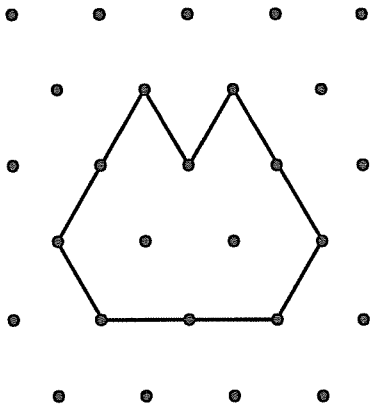
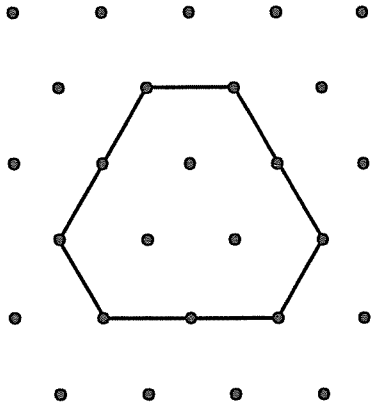
27.



X



Y

Which of the following statements is correct?

- ○ A. The perimeters of X and Y are the same.
- ○ B. The perimeter of X is longer than that of Y.
- ○ C. The perimeter of Y is longer than that of X.
- ○ D. The perimeters of X and Y cannot be compared.

28.

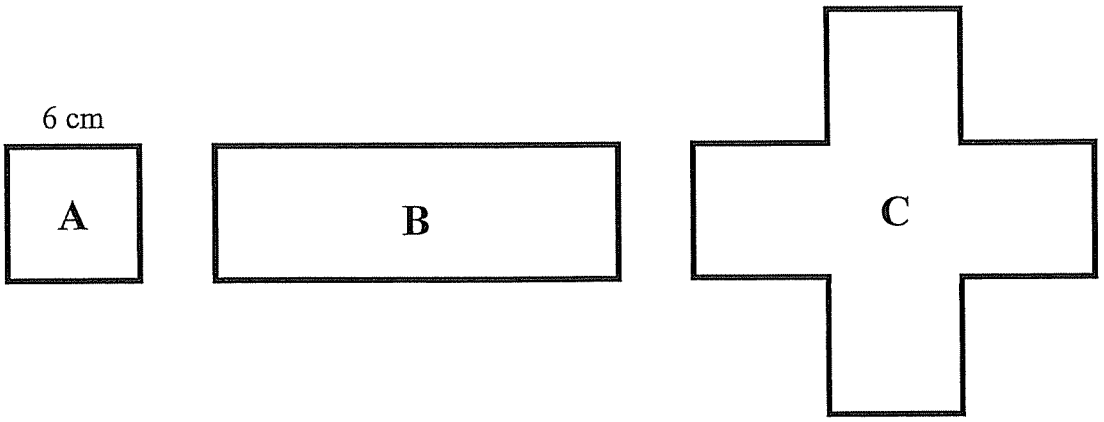


Figure A is a square with side 6 cm. Figure B is made up of three figures A. Figure C is made up of two figures A and one figure B.

(a) The perimeter of figure A is _____ cm.

(b) The perimeter of figure B is _____ cm.

(c) The perimeter of figure C is _____ cm.

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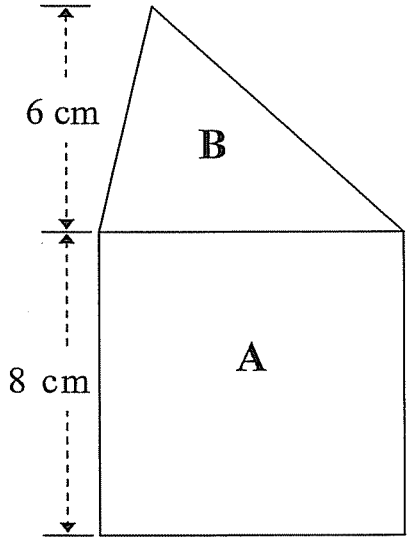
29.

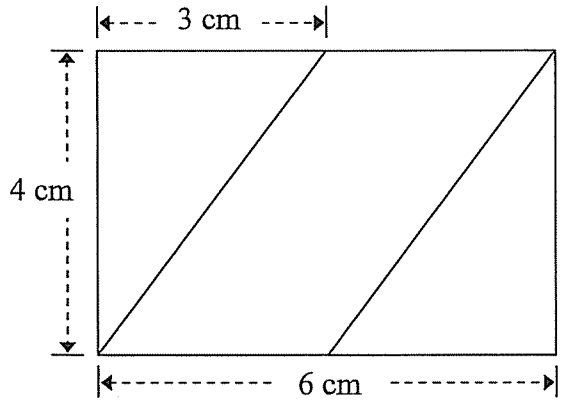


The figure above is made up of a square A and a triangle B.

(a) The area of A is _____ cm^2.

(b) The area of B is _____ cm^2.

30.



The rectangle above is made up of one parallelogram and two right-angled triangles.

(a) The area of the rectangle is _____ cm^2.

(b) The area of the parallelogram is _____ cm^2.

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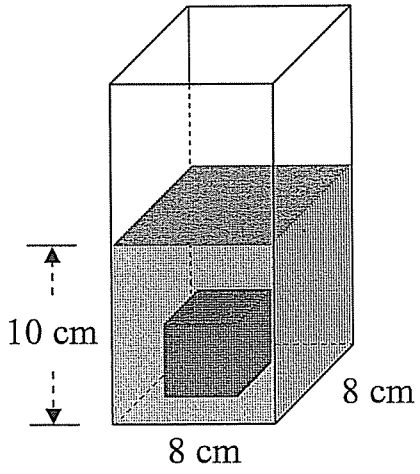
31.



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.

32. The distance of a marathon is 42.2 km. It takes Jackson 3 hours to cover the whole distance.

The average running speed of Jackson

is _____ km / h.
(correct the answer to two decimal places)

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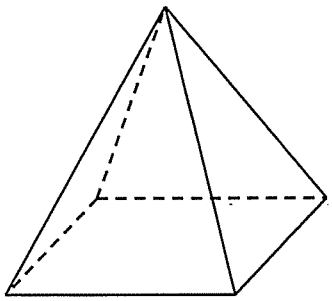
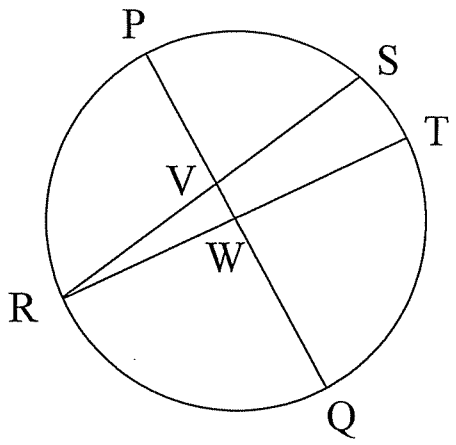


The above figure is a * pyramid / prism. (* circle the answer)

It has _____ vertices and _____ edges.

34.



PQ and RT are diameters of the circle above.

(a) _____ is the centre of the circle.

(b) In the figure,

* TR / TW / PV / PW / VW / VS

are radii of the circle.

(*circle all the answers)

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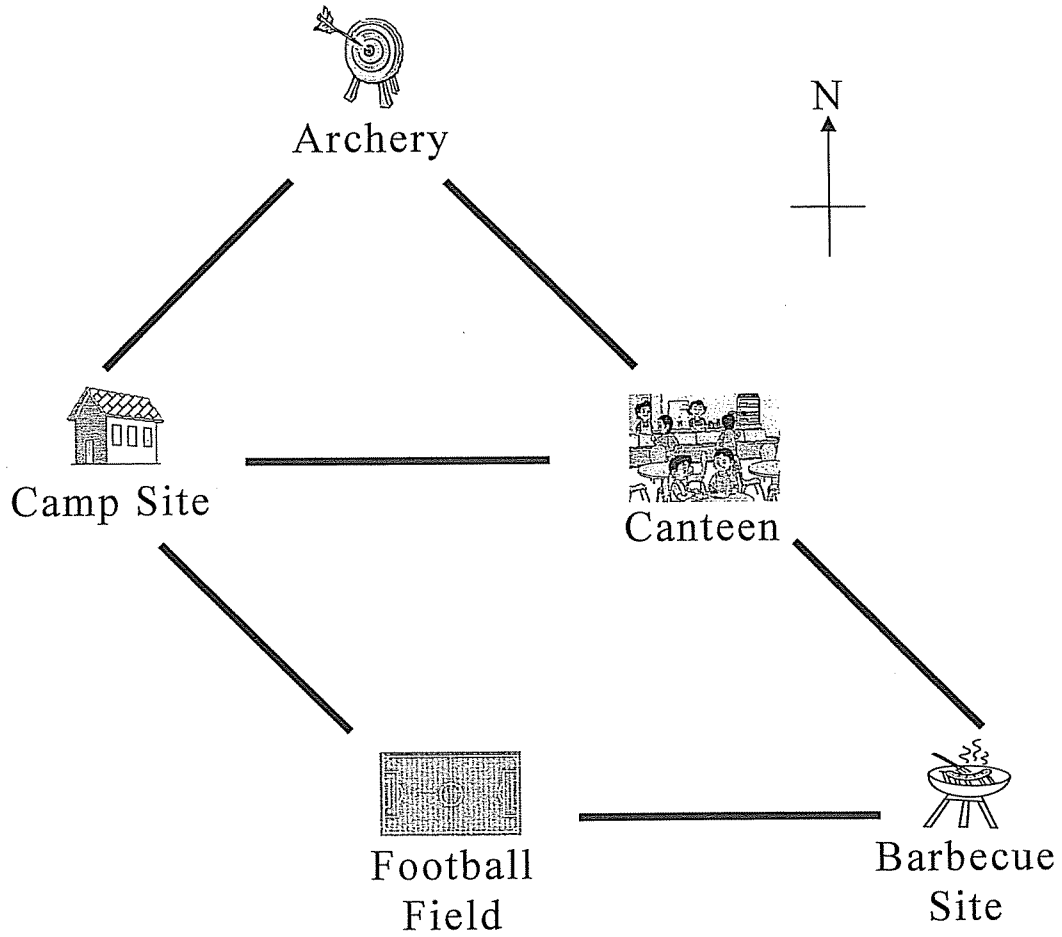
35. The Map of Holiday Village



(a) From the Canteen, Victor goes _____ to
(direction)
the Camp Site. Then he turns _____ to the
(direction)
Football Field.

(b) The Archery is to the _____ of the
(direction)
Barbecue Site.

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36. A quadrilateral has two pairs of parallel opposite sides. Its four sides are equal. It has no right angle. The quadrilateral is a

- ○ A. rhombus.
- ○ B. rectangle.
- ○ C. trapezium.
- ○ D. square.

37. A ticket to a concert costs $80.

N tickets cost $\$_____$.

38. Which of the following are equations? Write the letters for the answer.

A. $40 - 5L$

B. $10 + \frac{k}{5} = 20$

C. $10 \times (2B + 1)$

D. $3 = 90 \div 30$

E. $20 - 5 = 10A$

Answer: _____

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39. $2t - \frac{2}{5} = 3\frac{3}{5}$

$t =$ ☐

40. $23.4 = 1 + 7x$

$x =$ ☐

41. A number is multiplied by 12 and then 3 is added. The result is 75. Find the number by the **method of solving an equation**.
(show your working)

☐

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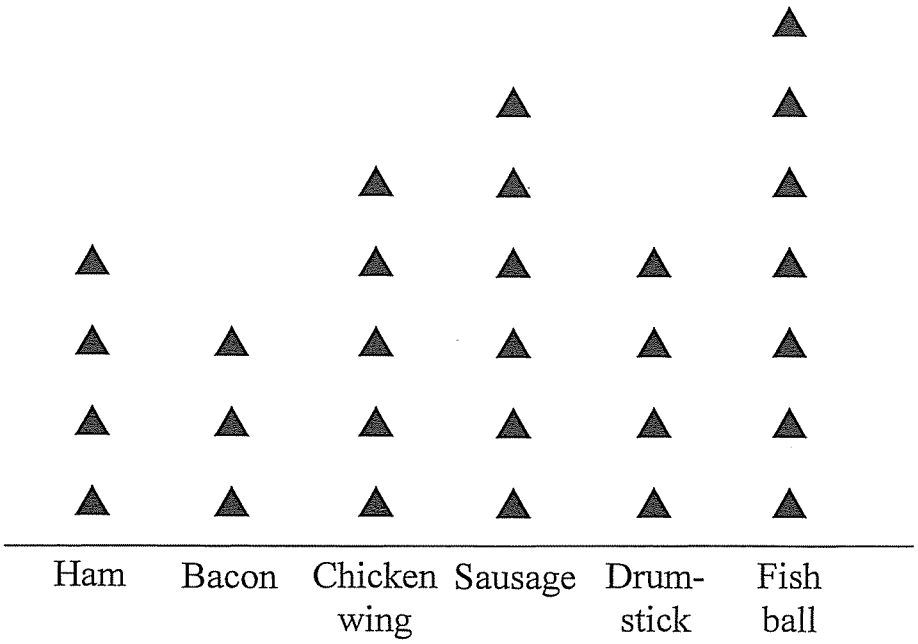
42. The pictogram below shows the sales of food in a supermarket yesterday.

The Sales of Food in a Supermarket Yesterday

Each ▲ stands for 100 packs



Food

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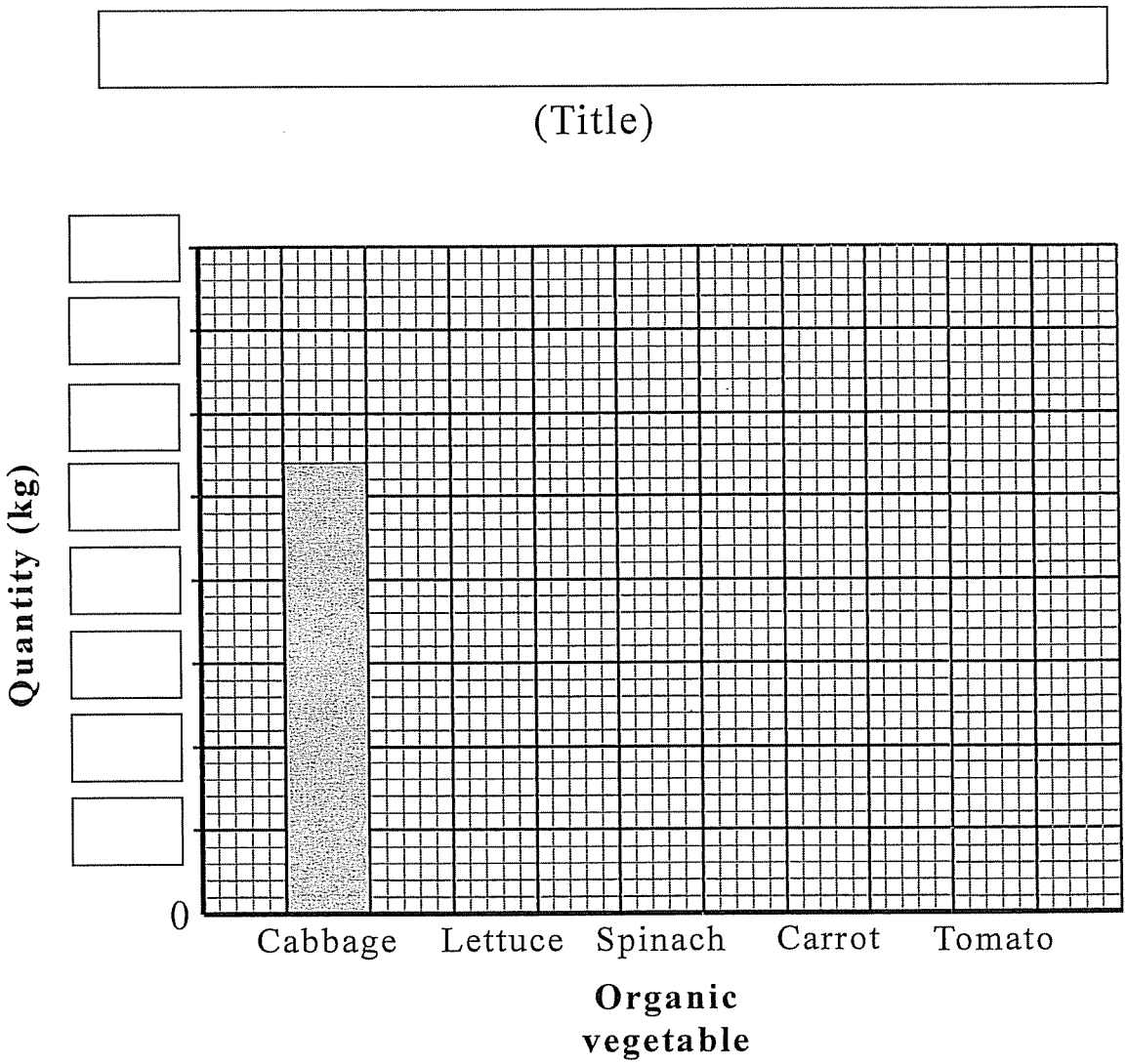
43. The following table shows the quantities of organic vegetables consumed by Healthy Restaurant last week.

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.



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44. Find the average of the five numbers below.

0 , 10.5 , 10 , 9.5 , 20

Answer: The average is _____ .

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2010-TSA-MATH-6ME4-20