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Please stick the barcode label in the box

Education Bureau
Territory-wide System Assessment 2012◆
Primary 6
Mathematics

Instructions:

1. Stick barcode labels on pages 1, 3, 5, 7 and 9 in the spaces provided.
2. There are 43 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 for answering questions:

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

◆2012 年小六全港性系統評估暫停舉行。此評估是學校以自願形式參與，而非全體小六學生參與的全港性系統評估。
The 2012 P6 TSA has been suspended. Participation in the 2012 P6 TSA is on a voluntary basis. As a result, this is a TSA in which not all P6 students will participate.

1. Which of the following numbers has the digit '5' in the thousands place and the digit '8' in the tens place?

☐ A. 15 080
☐ B. 15 800
☐ C. 51 080
☐ D. 51 800

2. Which of the following numbers is **not** a factor of 25?

☐ A. 1
☐ B. 5
☐ C. 25
☐ D. 50

3. List all the factors of 62.

Answer: _____

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

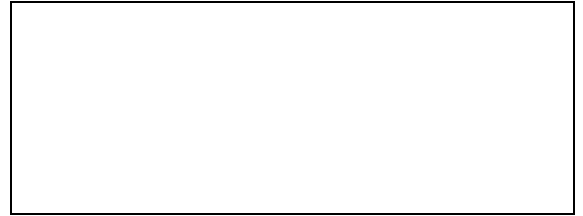
(a)

$$\frac{4}{\boxed{}} = 4$$

(b)

$$\frac{\boxed{}}{4} = 4$$

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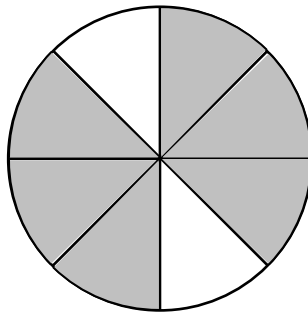


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5. (a) Within 50, all the common multiples of 6 and 9
are _____ .

(b) The Least Common Multiple (L.C.M.) of 6 and 9
is _____ .

6. Express the shaded part as a fraction of the whole figure
below.



Answer: The shaded part is _____ of the whole figure.



Please do not write in the margin.



7. (a) Change $3\frac{4}{7}$ into an improper fraction.

Answer:

- (b) Change $\frac{37}{6}$ into a mixed number.

Answer:

8. Which of the following fractions is the largest?
(Circle the answer)

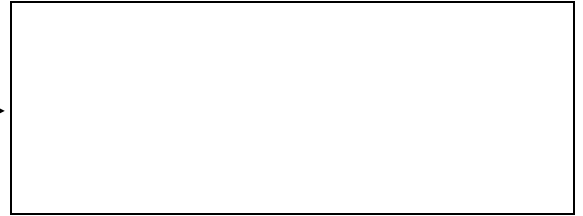
$$4\frac{3}{4} \quad , \quad \frac{23}{5} \quad , \quad 4\frac{1}{2}$$

9. In the number 521.394, the digit '9' is in
the _____ place.

10. $576 + 224 \div 16 =$ _____

11. $25 \times 126 =$ _____

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12. In the number 26.47, which digit stands for the smallest value?

- ☐ A. '2'
- ☐ B. '4'
- ☐ C. '6'
- ☐ D. '7'

13. $4\frac{1}{9} - 3\frac{1}{6} =$

14. $\frac{3}{5} - \frac{1}{5} \div \frac{2}{5} =$

- ☐ A. $\frac{1}{10}$
- ☐ B. $\frac{4}{25}$
- ☐ C. $\frac{13}{25}$
- ☐ D. 1

Please do not write in the margin.

15. $62.8 + 5.36 - 7.54 = \underline{\hspace{2cm}}$

16. $3.84 \div 2.4 = \underline{\hspace{2cm}}$

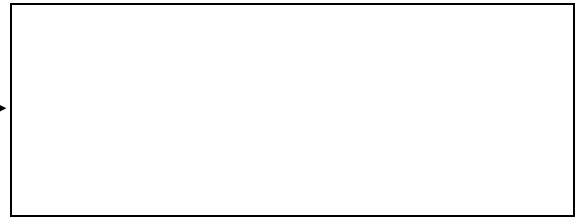
17. There are 15 pages in a photo album. Each page holds 4 photos. How many photo albums are needed to hold 300 photos?

Answer: photo albums are needed to hold 300 photos.

18. A watermelon costs \$6 per kilogram. The cost of a honeydew melon per kilogram is $1\frac{3}{5}$ times that of a watermelon. Daddy buys a honeydew melon that weighs $2\frac{1}{2}$ kg. How much does he pay?

(Show your working)

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19.

Food Price

Hamburger	\$12.60
Hotdog	\$9.60
Toast	\$8.90
Sandwich	\$11.40

- (a) Tony has \$44. After buying a hamburger and a sandwich, how much money has he left?

Answer: He has \$ _____ left.

- (b) Ben has \$20. Which of the following can he buy?
(Circle the answer)

A toast and a sandwich / Two hotdogs /
Two hamburgers

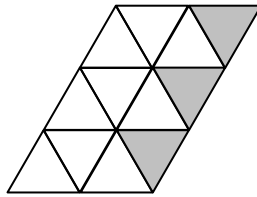
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20. Which of the following expressions is most suitable for estimating the value of $4.9 \div \frac{1}{4} - 6\frac{11}{12}$?

- ☐ A. $5 \times 4 - 6$
☐ B. $5 \times 4 - 7$
☐ C. $5 \div 4 - 6$
☐ D. $5 \div 4 - 7$

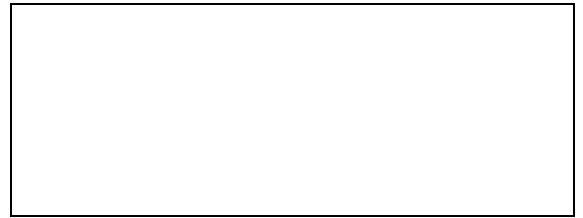
21.



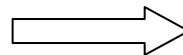
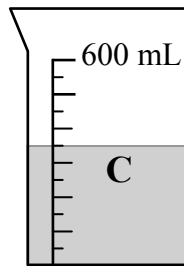
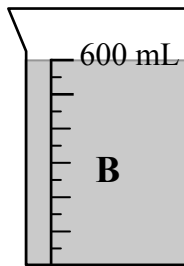
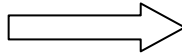
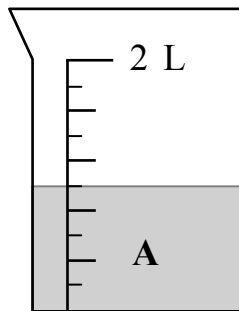
The shaded part of the above diagram is _____ % of the whole.

22. The salary of Sunny was \$8 400 last month. His salary is increased by 5% this month. What is his salary this month?
(Show your working)

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23.



- (a) All the water in Beaker A just fills up the milk carton. The capacity of the milk carton is _____ mL.
- (b) All the water in Beaker B and Beaker C just fills up the jar. The capacity of the jar is _____ L.
- (c) The capacity of the milk carton is
* larger than / smaller than / equal to that of the jar. (* Circle the answer)

Please do not write in the margin.

Please do not write in the margin.

24.

2012 February						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29			

- (a) Cindy went travelling on the second Monday of February. The date was the _____ of _____ .
(month)
- (b) A 7-day sale started on the 25th of February at Beauty Department Store. The last day of the sale was the _____ of _____ .
(month)
- (c) The year 2012 is a * common year / leap year.
(*Circle the answer)

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

- (a) A bag of family-sized cotton wool  weighs about 80 _____.

- (b) The height of a stack of six \$2 coins  is about 12 _____.

- (c) The capacity of a distilled water bottle  is about 20 _____.

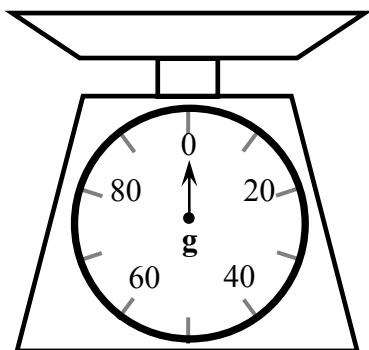
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26. Each cup of ice cream sold at Delicious

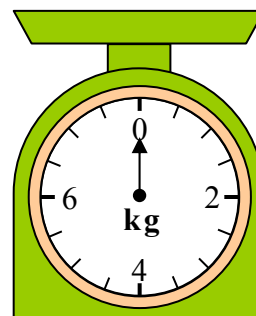


Ice Cream Shop weighs about 250 g.

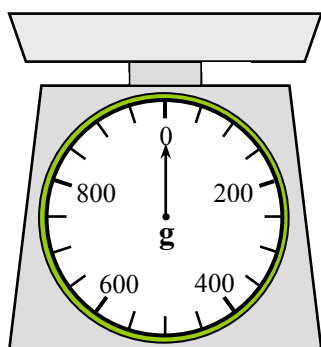
Which of the following scales is most suitable for measuring the weight of a cup of ice cream?



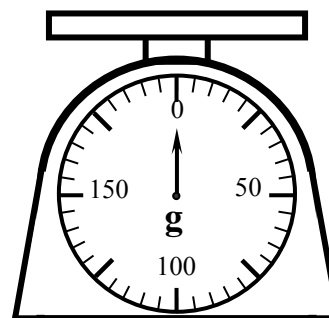
☐ A.



☐ B.



☐ C.



☐ D.

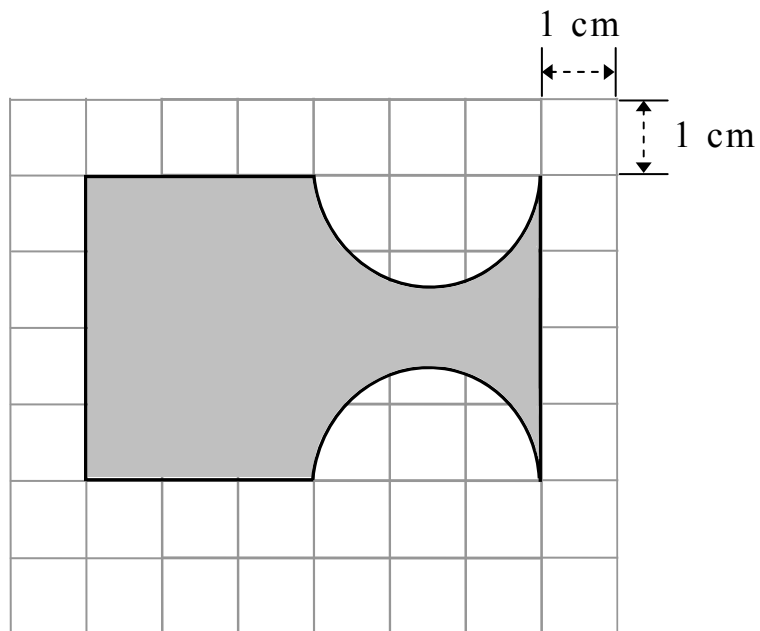
27. The perimeter of a rectangle is 1 m.

(a) Its length is 42 cm and the width is _____ cm.

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

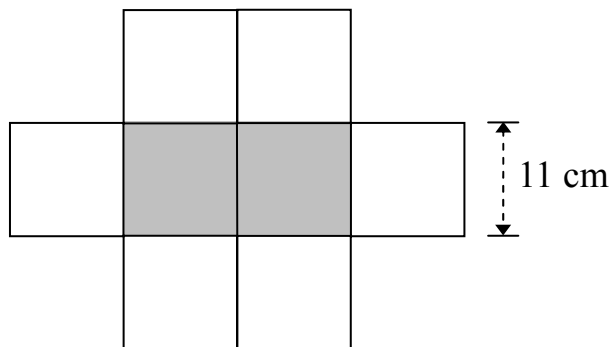
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28.



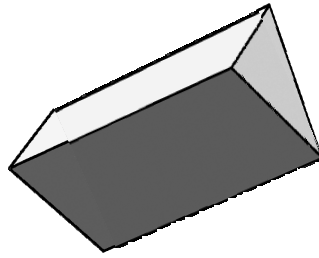
In the above diagram, the area of the shaded part is about _____ cm^2 . (Give the answer as a whole number)

29.



The above figure is made up of 8 identical squares. The area of the shaded part is _____ cm^2 .

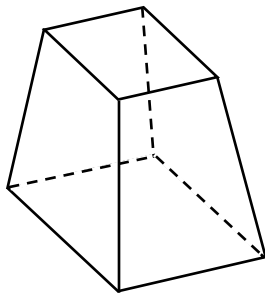
30.



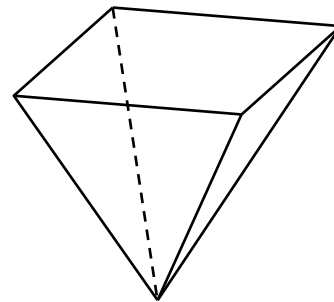
The above figure is a * pyramid / prism.
(*Circle the answer)

It has _____ faces and _____ edges.

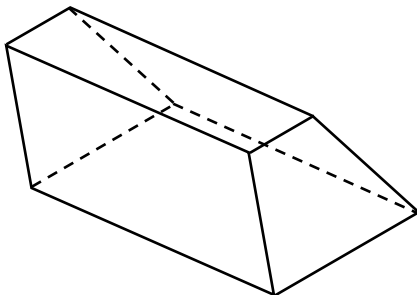
31. Which of the following 3-D shapes is a quadrilateral prism?



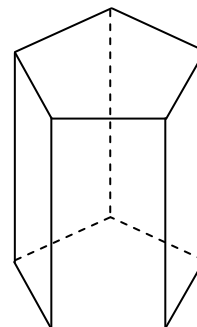
☐ A.



☐ B.



☐ C.

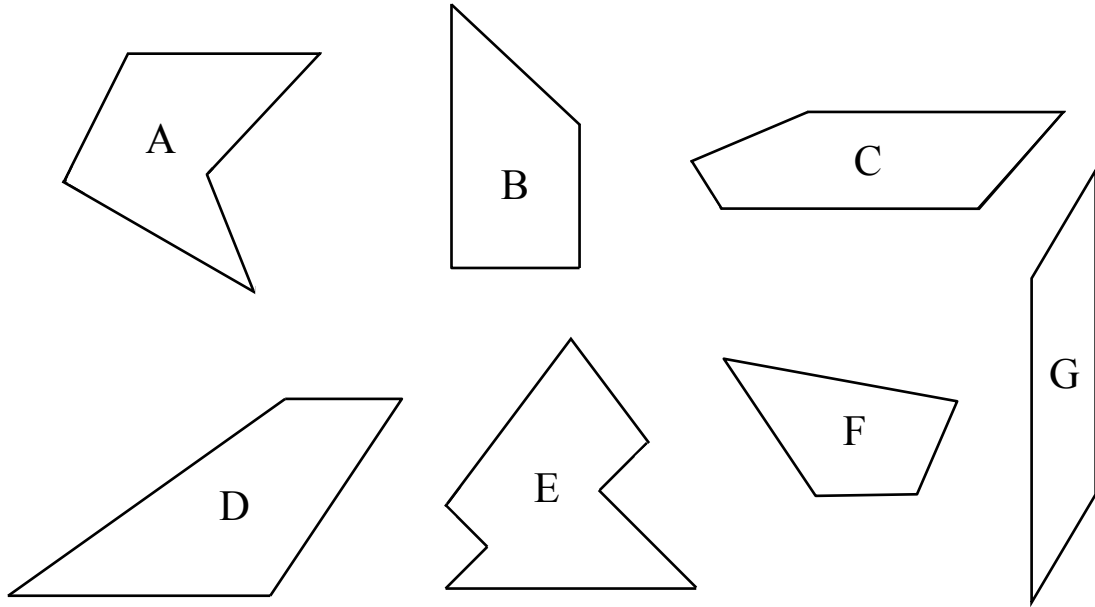


☐ D.

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Please do not write in the margin.

32.



- (a) Which of the above shapes are pentagons? Write the letters for the answer.

Answer: _____

- (b) Among the above quadrilaterals,
 * _____ and _____ have only one pair of
 opposite sides parallel. (*Write the letters for the
 answer)

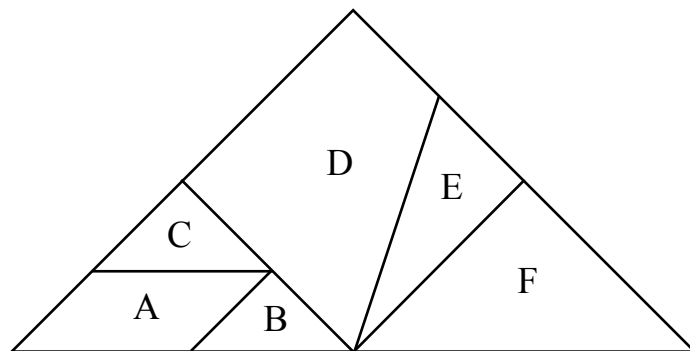
What is the name of these shapes?

Answer: _____

33. Which of the quadrilaterals below has two pairs of
 opposite sides parallel, two pairs of opposite sides equal
 and four angles equal ?

- ☐ A. Rhombus
- ☐ B. Rectangle
- ☐ C. Trapezium
- ☐ D. Parallelogram

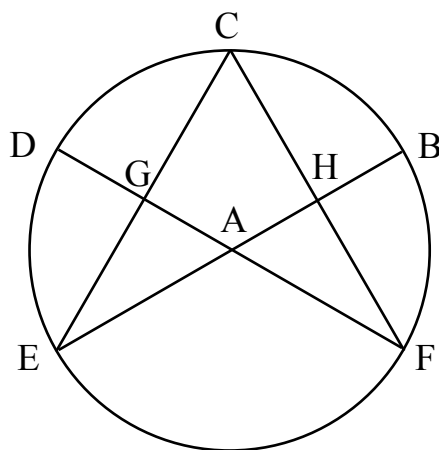
34.



The triangle above is formed by six 2-D shapes A, B, C, D, E and F.

- (a) Shape A is a _____ .
- (b) Shape D is a _____ .
- (c) Shape E is a/an _____ triangle.

35.

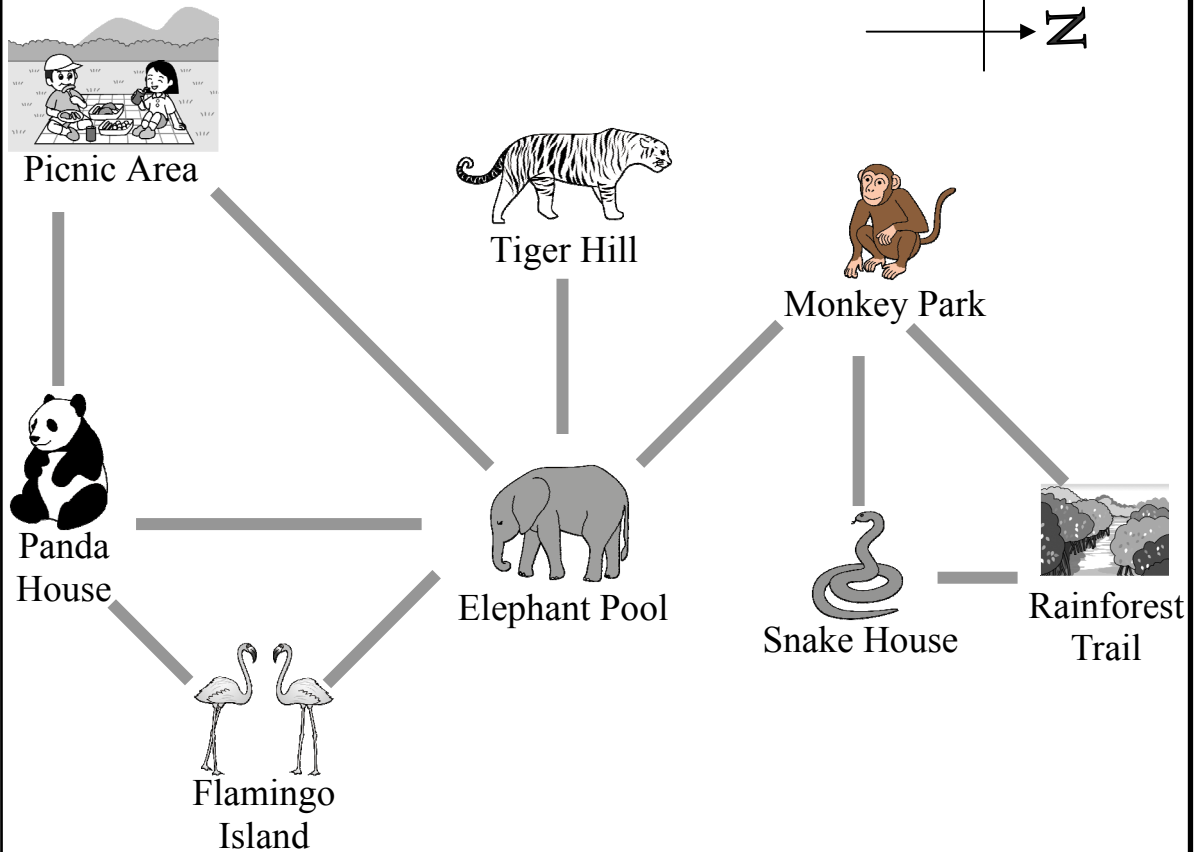


In the above figure, BE and DF are diameters of the circle.

- (a) Point A is the _____ of the circle.
- (b) * AH / AB / AG / AD / CF / CE
are radii of the circle. (*Circle all the answers)

Please do not write in the margin.

36. The following is the map of a zoo.



- (a) Panda House is to the south-west of _____.
- (b) Wendy goes from Picnic Area to Monkey Park.
She goes _____ to Elephant Pool, and
(direction)
then turns _____ to reach Monkey Park.
(direction)

37. $22 = \frac{n}{3} + 15$

$n =$

Please do not write in the margin.

38. Which of the following is an equation?

- ☐ A. $\frac{H}{4} + \frac{1}{2} = 8$
- ☐ B. $3h - 5$
- ☐ C. $3 + 9 = 3 \times 4$
- ☐ D. $56 \div 8 = 7$

39. $40y = 5$

$y =$

40. Mother paid \$888 for 4 adult tickets and 1 child ticket for Hippo Park. The price of each child ticket is \$104. By the method of solving an equation, find the price of each adult ticket.

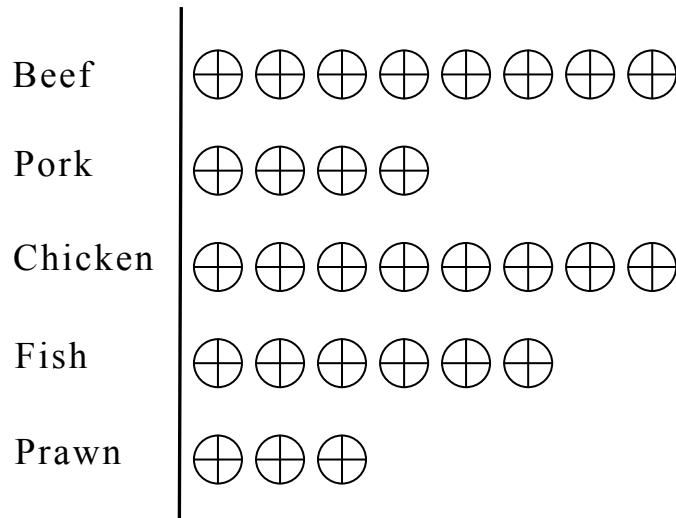
(Show your working)

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41. The following pictogram shows the amount of frozen food imported into a city last month.

Amount of Frozen Food Imported Last Month

Each  stands for 1 000 kg



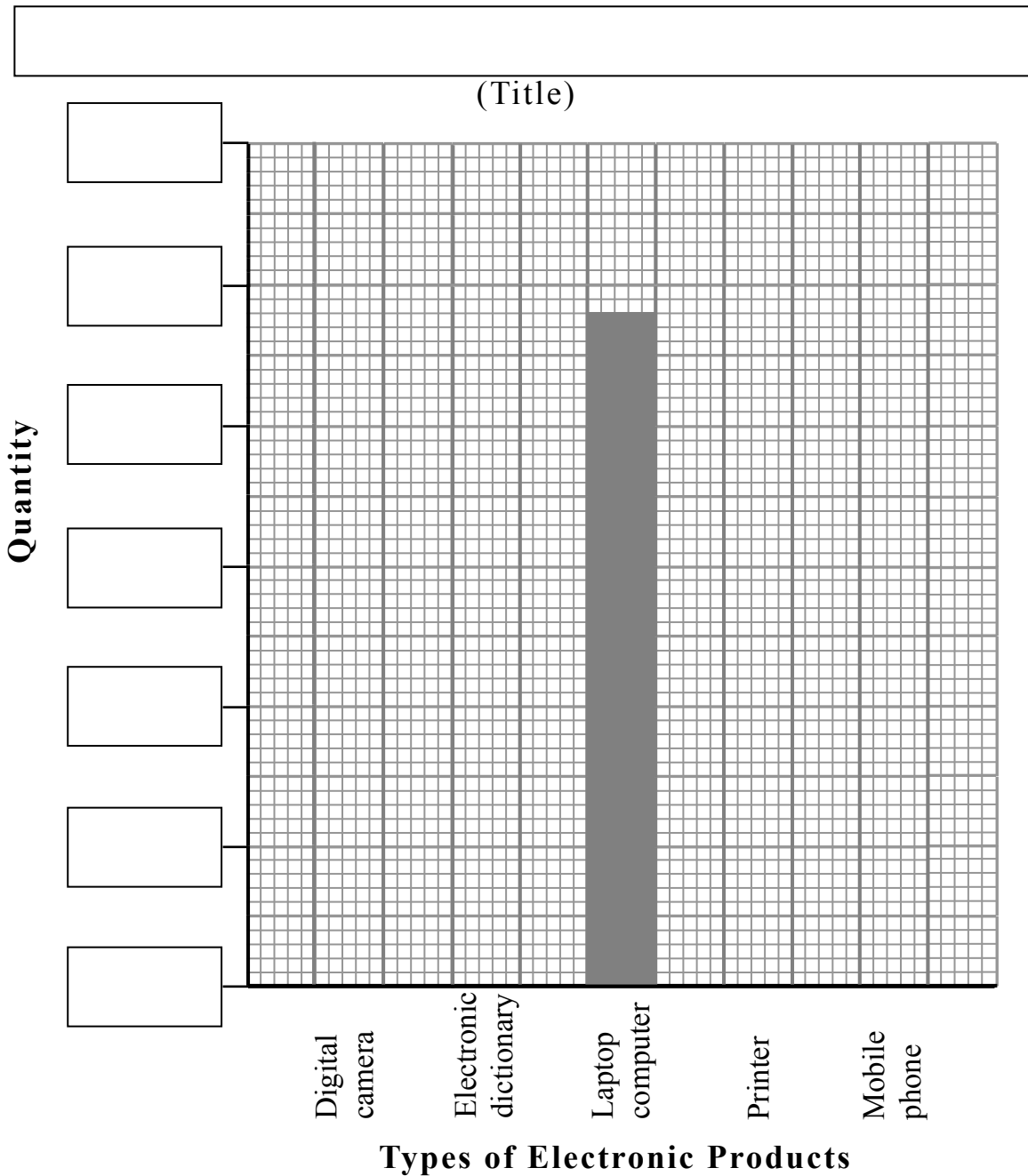
- (a) The total weight of frozen food imported is _____ kg.
- (b) The frozen food with the least imported amount is frozen _____ .
- (c) The weight of frozen pork imported is _____ % of the weight of frozen chicken.

Please do not write in the margin.

42. The following table shows the sales of electronic products last week.

Types of electronic products	Digital camera	Electronic dictionary	Laptop computer	Printer	Mobile phone
Quantity	520	340	480	210	160

According to the above data, complete the following bar chart and give it a suitable title.



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Please do not write in the margin.

43. Find the average of the five numbers below.

$$12\frac{1}{5} \quad , \quad 16.8 \quad , \quad 4.1 \quad , \quad 8.9 \quad , \quad 3$$

Answer: The average is _____ .

— END OF PAPER —