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Please stick the barcode label in the box

Education Bureau

Territory-wide System Assessment 2014◆

Primary 6

Mathematics

Instructions:

1. Stick barcode labels on pages 1, 3, 5, 7 and 9 in the spaces provided.
2. There are 41 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

◆ 2014 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 2014 P6 TSA has been suspended. Participation in the 2014 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 '8' in its hundreds place?

☐ A. 98.137
☐ B. 981.37
☐ C. 9813.7
☐ D. 98137

2. 9 is a factor of

☐ A. 32.
☐ B. 18.
☐ C. 6.
☐ D. 3.

3. List all the factors of 34.

Answer: _____

4. The Least Common Multiple (L.C.M.) of 15 and 24

is _____ .

5. Which of the following fractions has its value nearest to 1?

(Circle the answer)

$1\frac{5}{6}$, $1\frac{5}{7}$, $1\frac{5}{9}$

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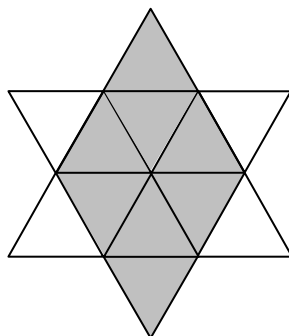
Please do not write in the margin.

6. The first common multiple of 4 and 14 is 28.

Which of the following numbers is their third common multiple?

- ☐ A. 2
- ☐ B. 56
- ☐ C. 84
- ☐ D. 112

7. Shade the triangles in the figure below so that the shaded part is $\frac{5}{6}$ of the whole figure.



Please do not write in the margin.

8. (a) Change $3\frac{2}{15}$ into an improper fraction.

Answer:

- (b) Change $\frac{85}{8}$ into a mixed number.

Answer:

9. Which of the following fractions is the largest?

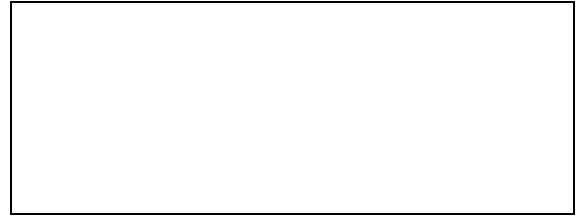
(Circle the answer)

$$2\frac{7}{9} \quad , \quad 2\frac{7}{8} \quad , \quad \frac{21}{8}$$

10. Change 0.15 into a fraction and reduce it to the simplest form.

Answer:

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11. In the number 0.009, what is the value represented by the digit '9'?

- ☐ A. 9
- ☐ B. $\frac{9}{10}$
- ☐ C. $\frac{9}{100}$
- ☐ D. $\frac{9}{1000}$

12. When 750 is divided by 14, the quotient is _____
and the remainder is _____ .

13. $2\frac{5}{8} + \frac{5}{6} =$

14. $\frac{2}{7} \times \frac{3}{4} \times 2\frac{1}{3} =$

15. $27 - 7.3 + 0.65 =$ _____

16. $5.16 \div 0.3 =$ _____

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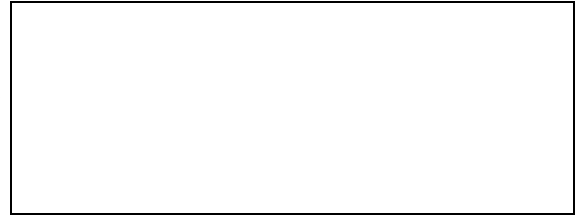
17. A teacher has 36 pens. $\frac{1}{3}$ of the pens are red and $\frac{1}{2}$ are yellow.

The number of red pens is _____ * more / less than that of yellow pens. (*Circle the answer)

18. 42 students took part in a fitness test and $\frac{5}{6}$ of them passed. $\frac{2}{7}$ of those who passed were chosen to join the school team.

How many students were chosen to join the school team?
(Show your working)

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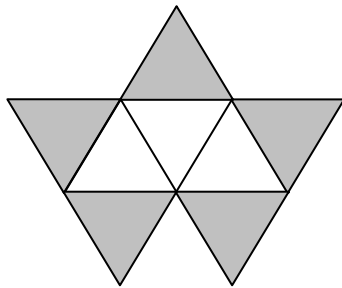
19. There are 1.5 L of juice in a bottle. Susan uses 2.5 bottles of juice to make fruit punch.

She uses _____ L of juice altogether.

20. A box of candies costs \$28.80. Linda has \$309.00. Which of the following expressions is most suitable for estimating the number of boxes of candies that she can buy at most?

- ☐ A. $300 \div 20$
- ☐ B. $300 \div 30$
- ☐ C. $400 \div 20$
- ☐ D. $400 \div 30$

21. What percentage of the whole figure below is shaded?



Answer: _____ % of the whole figure is shaded.

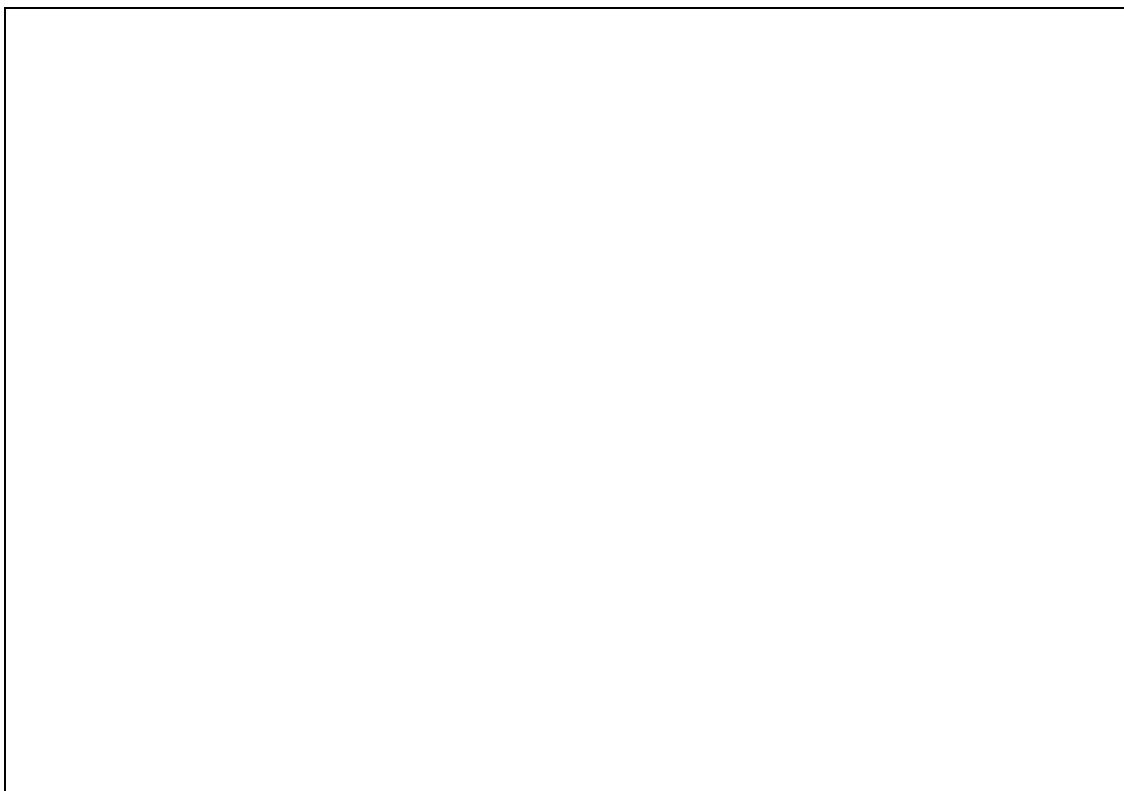
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22. Dad bought a cake. After Peter had eaten $\frac{1}{3}$ of the cake, Susan ate 75% of the remaining part.

What percentage of the whole cake did Susan eat?

(Show your working)



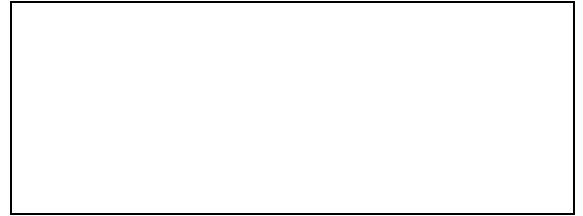
23. Fill in the following blanks with suitable units.

(a) The depth of water in a training swimming pool is about 1 _____ .

(b) A child weighs about 30 _____ .

(c) The capacity of a bucket is about 15 _____ .

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24. The calendar of February 2012 is shown below.

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) The 30th of January 2012 is _____ .
(day of a week)

(b) School 'Fruit Days' are every Tuesday and Friday
in February. The last 'Fruit Day' is
the _____ of _____ .
(day) (month)

(c) 2012 is a * common year / leap year
(*circle the answer)
because _____

_____ .

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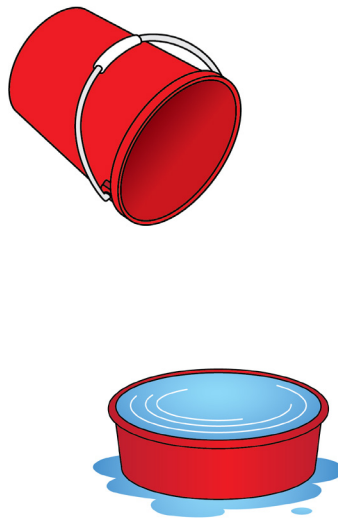
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25. Eva filled up a vase with water. She poured all the water into an empty bucket.



Then she poured the water from the bucket into an empty plastic basin until it overflows.

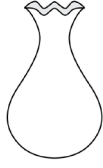


The capacity of the plastic basin is

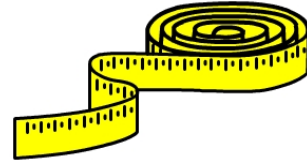
* smaller than / equal to / larger than that of the vase.

(*Circle the answer)

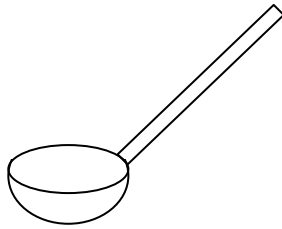
26. Which of the following is most suitable for measuring the capacity of a vase ?



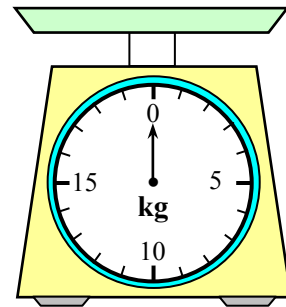
☐ A.



☐ B.



☐ C.



☐ D.

27. The radius of a circular carpet is 70 cm.

Its circumference is _____ cm.

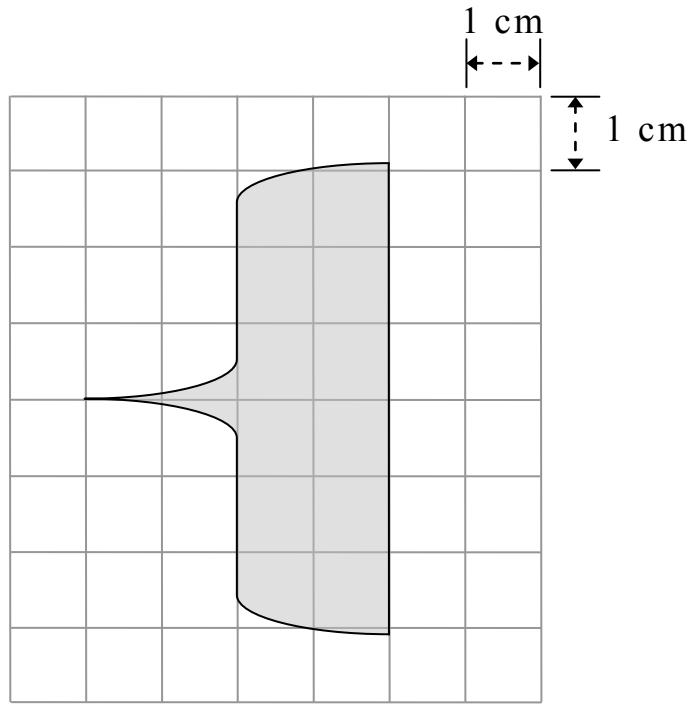
(Take π as $\frac{22}{7}$)

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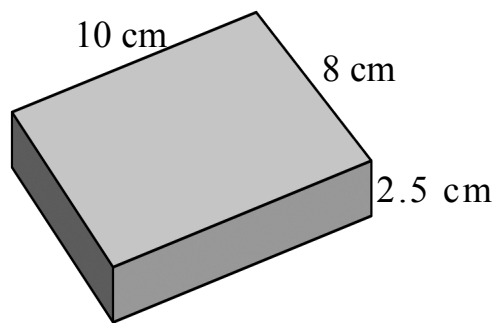
28. In the following diagram, the side of each square is 1 cm. The area of the shaded part is about

_____ cm^2 .

(Give the answer as a whole number)



29.



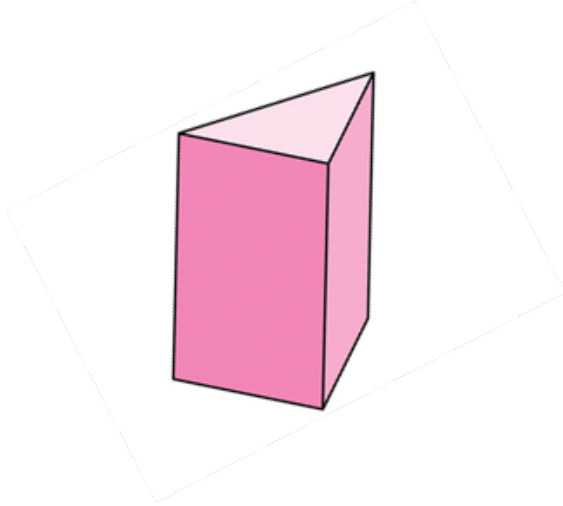
The volume of the cuboid above is _____ .

(Give your answer with a unit)

Please do not write in the margin.

30. The average speed of a bus is about
60 _____. (Give a suitable unit)

31.



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

It has _____ edges.

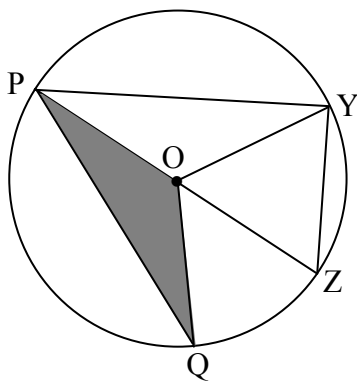
32. Study the 2-D shape below.



This is a * parallelogram / rhombus / trapezium .
(*Circle the answer)

It has _____ pair(s) of opposite sides parallel.

33.



In the figure above, point O is the centre of the circle.

(a) Which of the straight lines below is a radius?

- ☐ A. PY
- ☐ B. PO
- ☐ C. PZ
- ☐ D. PQ

(b) The shaded part is

* an isosceles / a right-angled / an equilateral triangle.

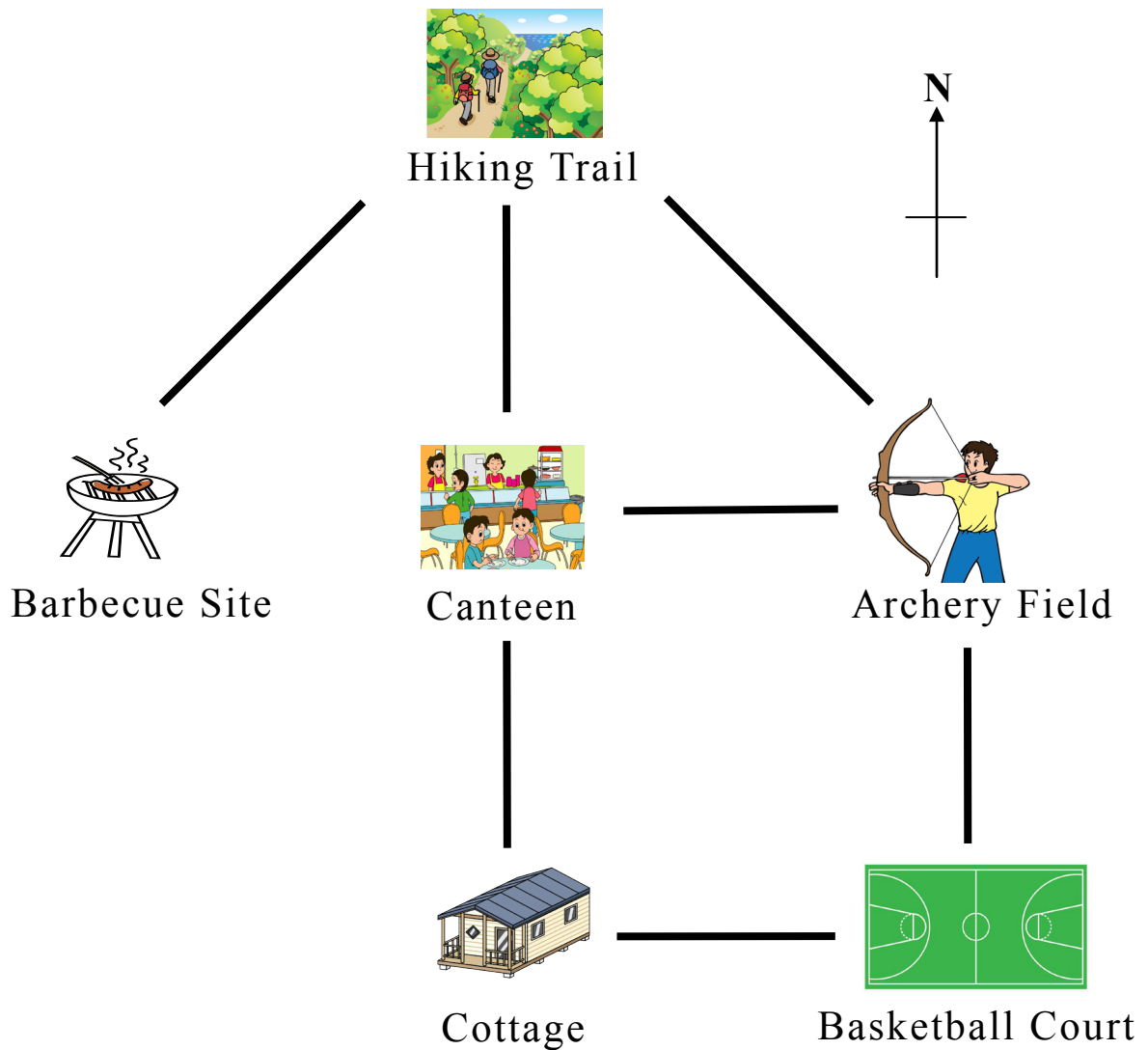
(*Circle the answer)

34. A square has _____ right angle(s)

and _____ equal sides.

Please do not write in the margin.

35. The map of Healthy Camp is shown below.



Please do not write in the margin.

- (a) Archery Field is to the _____ of Barbecue Site.
(direction)
- (b) _____ is to the south-east of Canteen.
- (c) Starting from Cottage, the teacher goes _____
(direction)
to reach Hiking Trail. Then she turns _____
(direction)
to reach Barbecue Site.

36. Which of the following stands for 'y plus 1 is divided by 6'?

- ☐ A. $y + \frac{1}{6}$
- ☐ B. $\frac{y}{6} + 1$
- ☐ C. $\frac{y + 1}{6}$
- ☐ D. $\frac{6}{y} + 1$

37. $12 = 120x$


$x =$

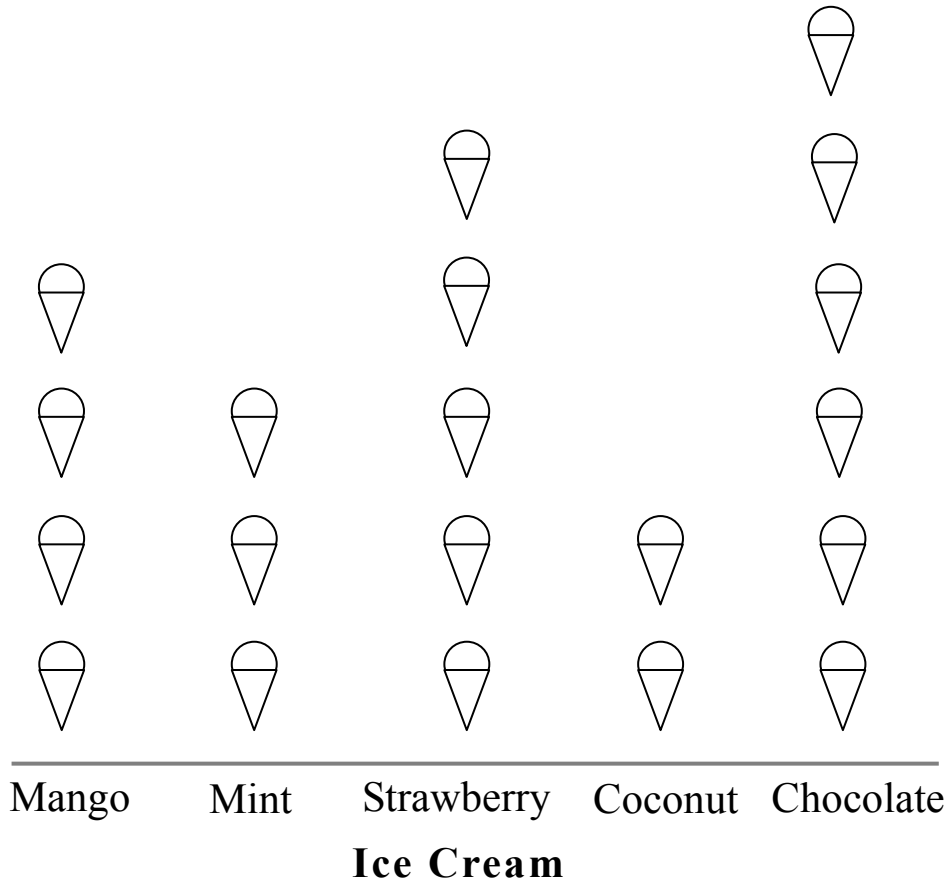
38. A number is divided by 6. The result minus 14 is equal to 10. Find the number by *the method of solving an equation*. (Show your working)

Please do not write in the margin.

39. The following pictogram shows the sales of different kinds of ice cream at Tasty House last week.

**Sales of Different Kinds of Ice Cream
at Tasty House Last Week**

Each  stands for 100 cones



- (a) The sales of _____ ice cream were the most last week.
- (b) A total of _____ ice cream cones were sold last week.
- (c) The sales of mint ice cream sold last week were _____ % of the sales of chocolate ice cream.

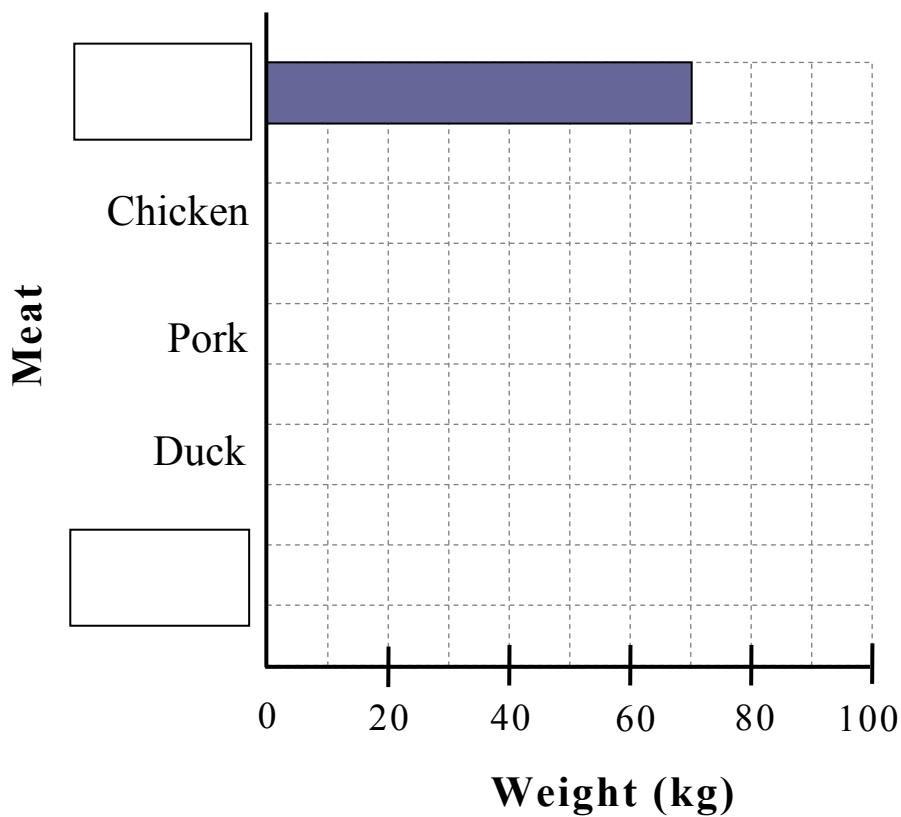
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40. The following table shows the weight of different kinds of meat ordered by Farm Cafe.

Meat	Mutton	Duck	Pork	Chicken	Beef
Weight (kg)	20	30	80	40	70

Use a pencil to complete the following bar chart according to the information above. Give it a suitable title and fill in the boxes with the names of meat.

(Title)



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Please do not write in the margin.

41. At first there were 10 people in a lift and their average weight was 75 kg.

Then a child weighing 31 kg entered the lift.

The average weight of these 11 people
was _____ kg.

— END OF PAPER —

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