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Please stick the barcode label in the box

Education Bureau
Territory-wide System Assessment 2016◆
Primary 6
Mathematics

Instructions:

1. Stick barcode labels on pages 1, 3, 5, 7 and 9 in the spaces provided.
2. There are 37 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

◆ 2016 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 2016 P6 TSA has been suspended. Participation in the 2016 P6 TSA is on a voluntary basis. As a result, this is a TSA in which not all P6 students will participate.

1. 30 005 is read as

- ☐ A. three thousand and five.
- ☐ B. three thousand and fifty.
- ☐ C. thirty thousand and five.
- ☐ D. thirty thousand and fifty.

2. List all the common factors of 15 and 75.

Answer: _____

3. Fill in the boxes with the correct numbers.

(a)

$$\frac{5}{35} = \frac{1}{\boxed{}}$$

(b)

$$\frac{16}{12} = \frac{\boxed{}}{72}$$

4. Which of the following fractions is the smallest?

(Circle the answer)

$$\frac{25}{8}, \quad 3\frac{1}{7}, \quad 3\frac{3}{8}$$

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Please do not write in the margin.

5. Change $1\frac{4}{9}$ into a decimal correct to two decimal places.

Answer: _____

6. In the number 5.093, the digit '9' is
in the _____ place.

7. When 385 is divided by 19, the quotient is _____
and the remainder is _____.

8. $3.6 \times 0.2 \times 1.5 =$ _____

9. $615 - 80 \div 5 =$

- ☐ A. 107
☐ B. 127
☐ C. 599
☐ D. 609

Please do not write in the margin.

10. $1\frac{1}{4} + 9\frac{2}{5} - 6\frac{7}{10} =$

11. $1\frac{1}{3} \times \frac{15}{22} \times \frac{11}{25} =$

12. Calculate $4.34 \div 5.1$.

Round the answer to two decimal places.

Answer: _____

13. $0.91 \div (1.3 - 0.8) =$ _____

14. There are 32 pupils in Class 6A. $\frac{5}{8}$ of them form a football team. $\frac{3}{8}$ of them form a basketball team.

The football team has _____ * more / less pupil(s) than the basketball team. (*Circle the answer)

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15. Ricky works for 24 days each month and 7.5 hours each day.

Ricky works for _____ hours each month.

16. The original price of a stationery set was 208 dollars. It is now sold at 38% of its original price. Which of the following expressions is most suitable for estimating the amount (in dollars) paid for a stationery set?

- ☐ A. 200×0.3
- ☐ B. 200×0.4
- ☐ C. 300×0.3
- ☐ D. 300×0.4

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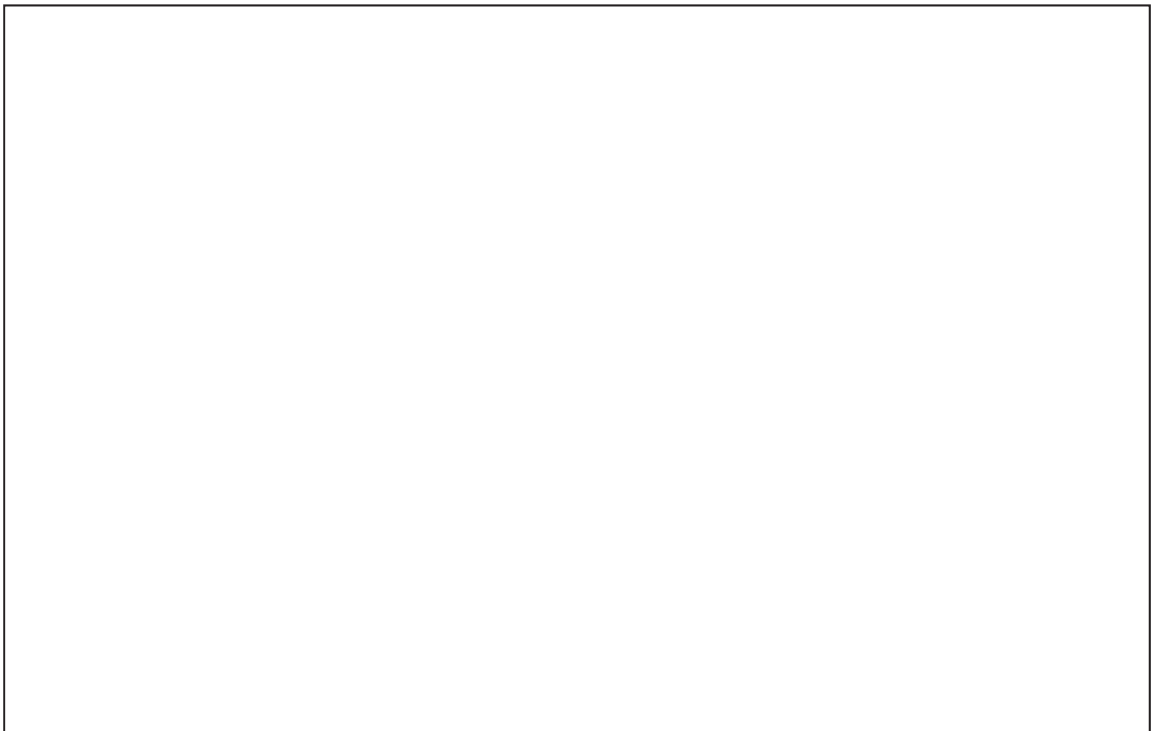
17. A shopkeeper bought 125 bottles of juice. He sold 20% of them on the first day. 60% of the remaining amount was sold on the second day.

(a) The shopkeeper sold _____ bottles of juice on the first day.

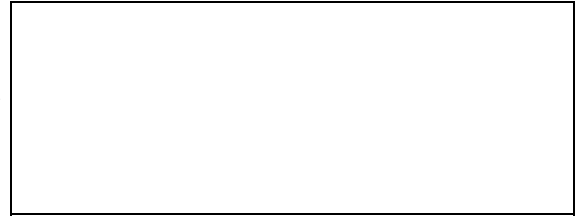
(b) The amount of juice sold on the second day was _____ % of the total amount bought.

18. A pencil box costs 20 dollars. A ruler costs 5.5 dollars. Lisa has 36.5 dollars. After she has bought a pencil box, how many rulers can she buy at most?

(Show your working)



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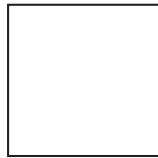


19. (a) Change $1\frac{7}{40}$ into a percentage.

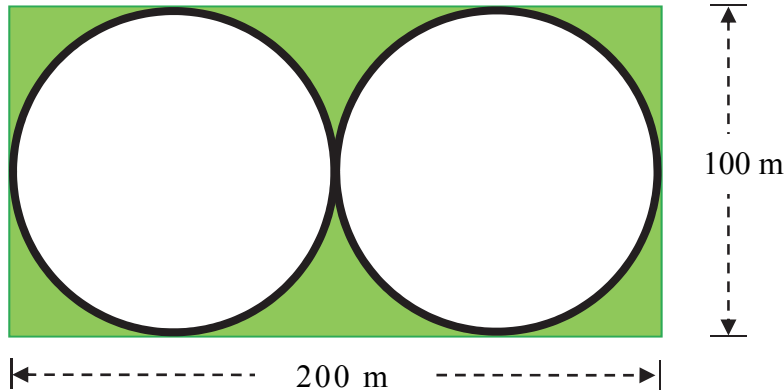
Answer: _____ %

- (b) Change 0.15% into a fraction and reduce it to the simplest form.

Answer:



20.



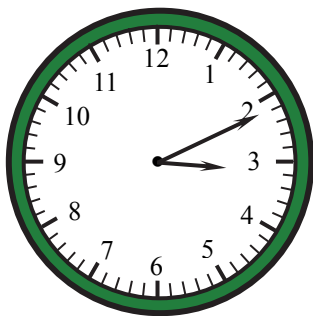
The rectangular lawn is 200 m long and 100 m wide. There are two circular fences in the lawn. They have the same diameter (as shown in the diagram above).

- (a) The perimeter of the rectangle lawn is _____ m.
(b) The total length of the fences is _____ m.
(Take π as 3.14)

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Please do not write in the margin.

21. Mandy went to the opera house with her classmates.



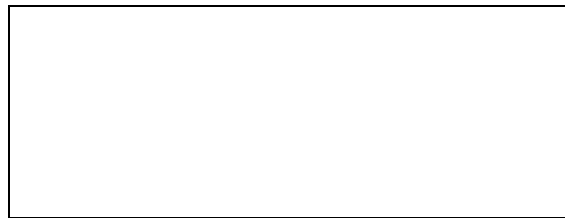
- (a) The clock above showed the time Mandy arrived at the opera house.

The time was _____ minutes past _____ in the afternoon.

- (b) The admission time to the hall was half past three in the afternoon. In '24-hour time', the admission time was _____ : _____ .

- (c) Mandy had to wait for at least _____ minute(s) before entering the hall.

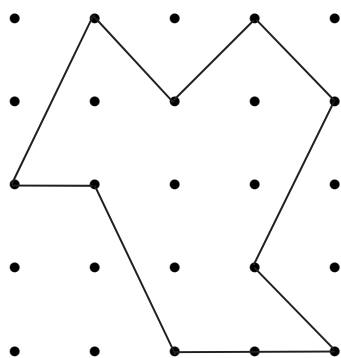
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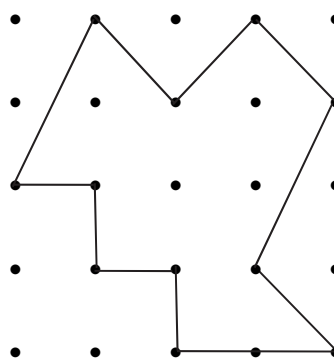
22. Fill in the following blanks with suitable units.

- (a) The length of a hiking path is about 50 _____ .
- (b) A pudding weighs about 80 _____ .
- (c) The capacity of a jar is about 1 _____ .

23.



X



Y

Study the diagrams above. Which of the following statements is correct?

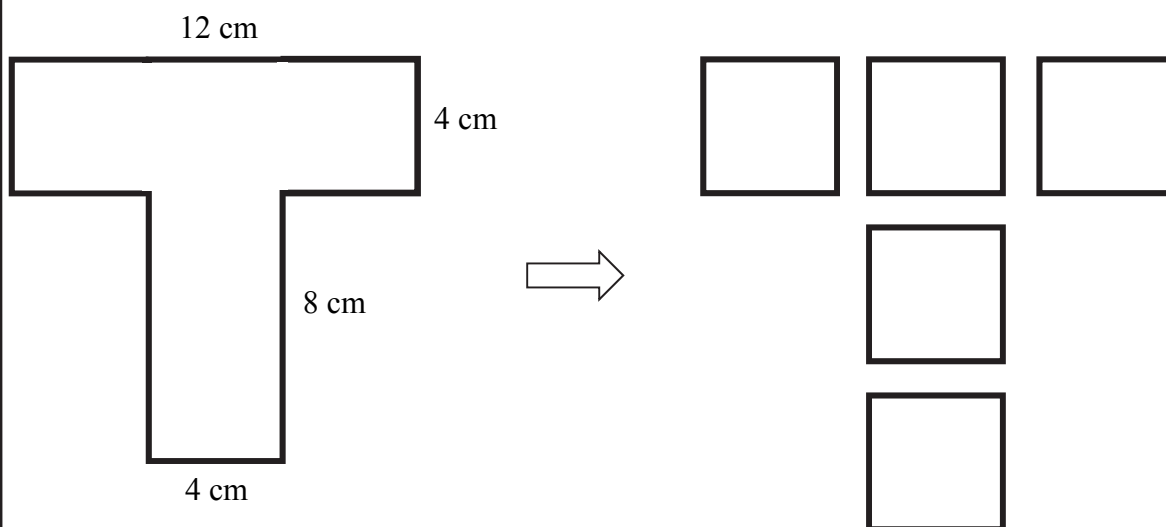
- ☐ A. The perimeter of **X** is longer than that of **Y**.
- ☐ B. The perimeters of **X** and **Y** are the same.
- ☐ C. The perimeter of **X** is shorter than that of **Y**.
- ☐ D. The perimeters of **X** and **Y** cannot be compared.

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Please do not write in the margin.



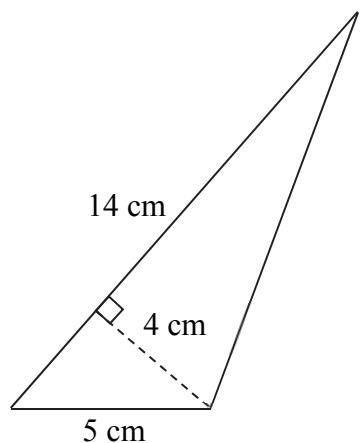
24.



Kenny divides the left figure into five squares.

- (a) The perimeter of the left figure is _____ cm.
- (b) The area of one square is _____ cm^2 .

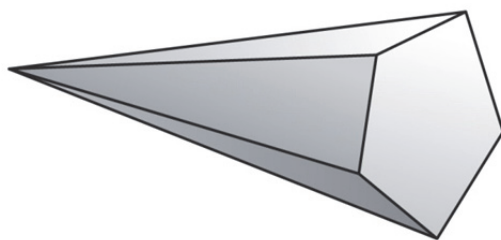
25.



What is the area of the triangle above?

- ☐ A. 10 cm^2
- ☐ B. 28 cm^2
- ☐ C. 35 cm^2
- ☐ D. 56 cm^2

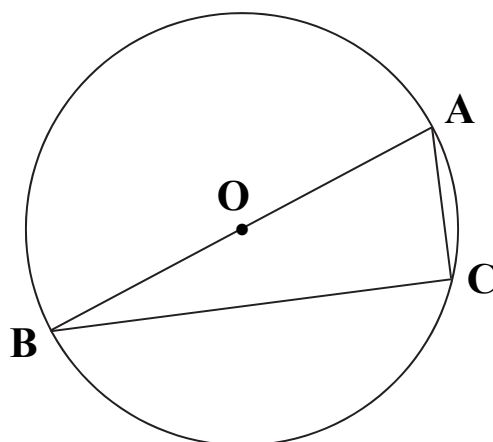
26.



The figure above is a pyramid.

It has _____ edges.

27. The diagram below shows a circle and a triangle. **O** is the centre of the circle.



- (a) The lines **AB**, **BC** and **CA** form
* a right-angled / an isosceles / an equilateral triangle. (*Circle the answer)

- (b) Use a ruler to measure the length of **OA**.

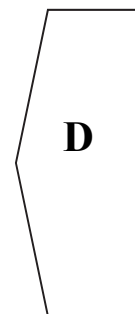
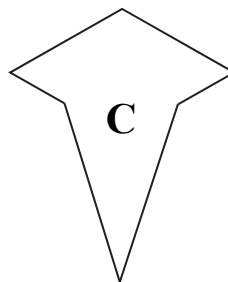
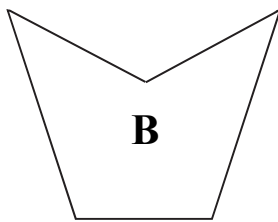
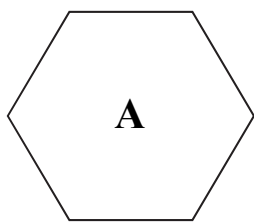
Answer: The length of **OA** is about _____ mm.

(Give the answer as a whole number)

- (c) Which of the following lines is a diameter?

- ☐ A. **AB**
- ☐ B. **OB**
- ☐ C. **BC**
- ☐ D. **CA**

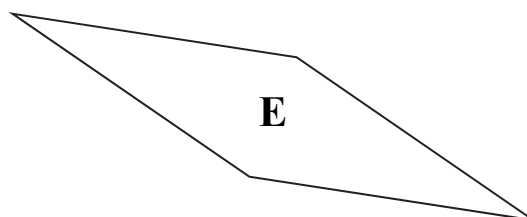
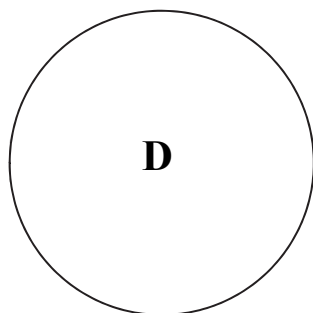
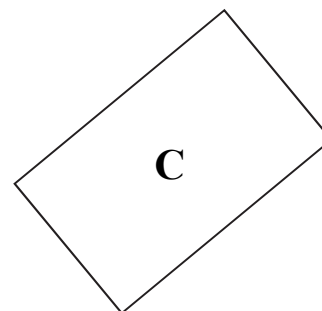
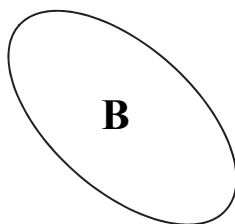
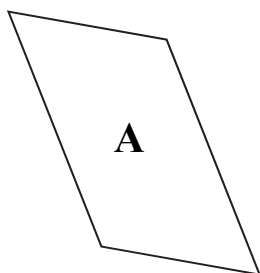
28. Study the following 2-D shapes. Write the letter(s) for the answer.



Pentagon : _____

Hexagon : _____

29. Study the 2-D shapes below. Write the letter(s) for the answer.

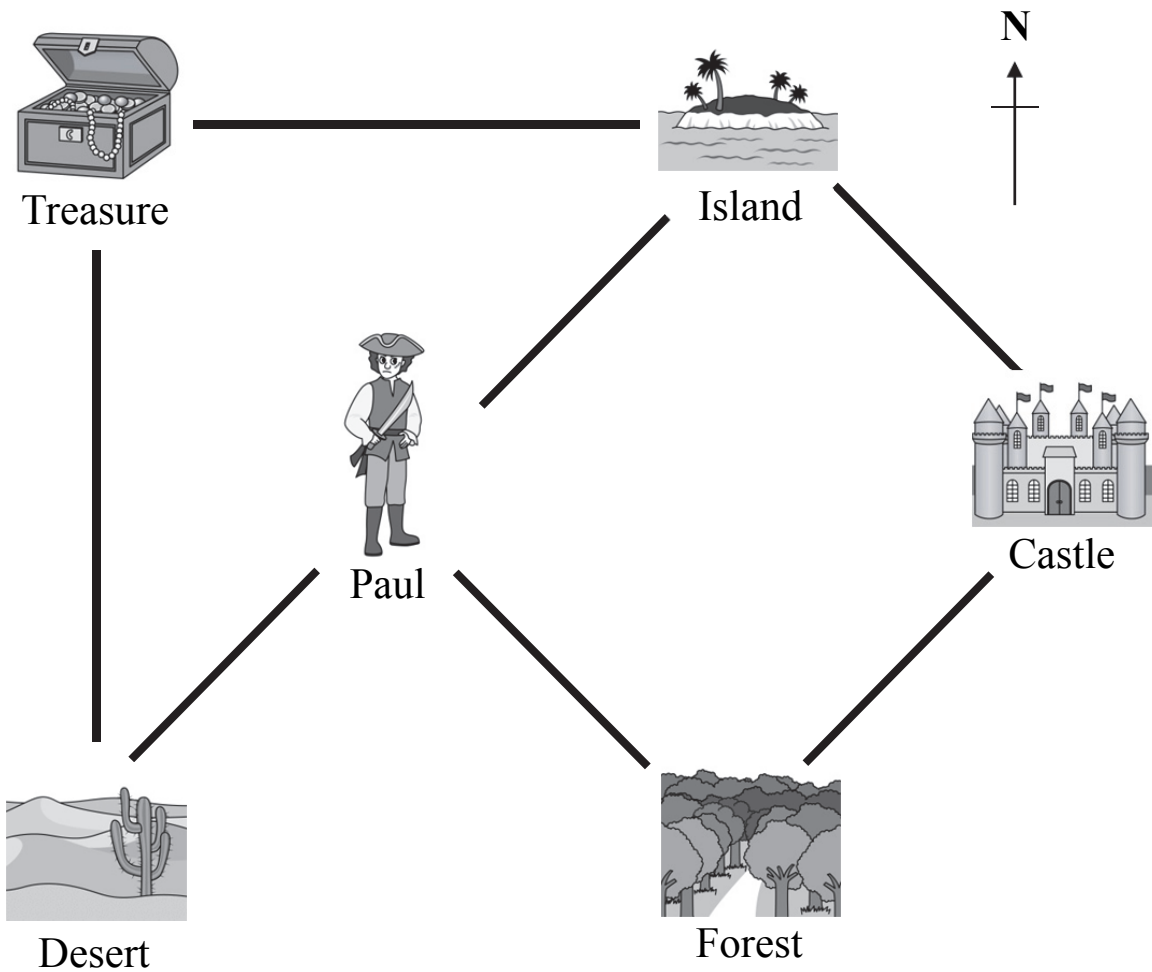


(a) Rhombus: _____

(b) Circle: _____

Please do not write in the margin.

30. The map for the Treasure Hunt is shown below.



Please do not write in the margin.

(a) Treasure is to the _____ of Desert.
(direction)

(b) Paul is to the south-west of _____ .

(c) Paul goes _____ to reach Forest.
(direction)

Then he turns _____ to reach Castle.
(direction)

31. There are K cookies in a box. If a customer buys 3 boxes of cookies at one time, she will get 2 more cookies.

Fanny buys 3 boxes of cookies. How many cookies can she get altogether?

- ☐ A. $3K \times 2$
- ☐ B. $3K + 2$
- ☐ C. $(K + 2) \times 3$
- ☐ D. $(K + 3) \times 2$

32. Which of the following is an equation?

- ☐ A. $y - 2$
- ☐ B. $19 \div 6 = 3\frac{1}{6}$
- ☐ C. $\frac{t}{9} + 1 = 10$
- ☐ D. $\frac{25}{4} = 6.25$

33. $15.7 = 2P - 2.3$

$P =$

34. Helen bought 10 packets of candies. Each packet had the same number of candies. After she ate 12 candies, 28 candies were left.

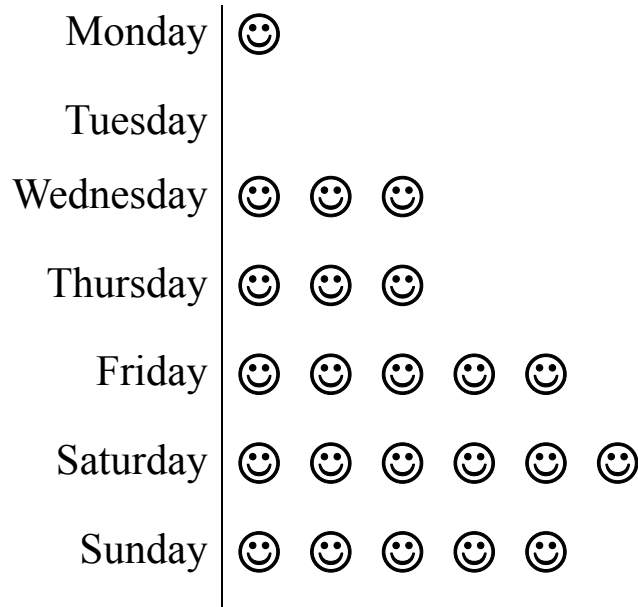
Find the number of candies in each packet by ***the method of solving an equation.***

(Show your working)

35. The following pictogram shows the number of passengers taking the cable car last week.

**Number of Passengers Taking the
Cable Car Last Week**

Each ☺ stands for 1 000 passengers

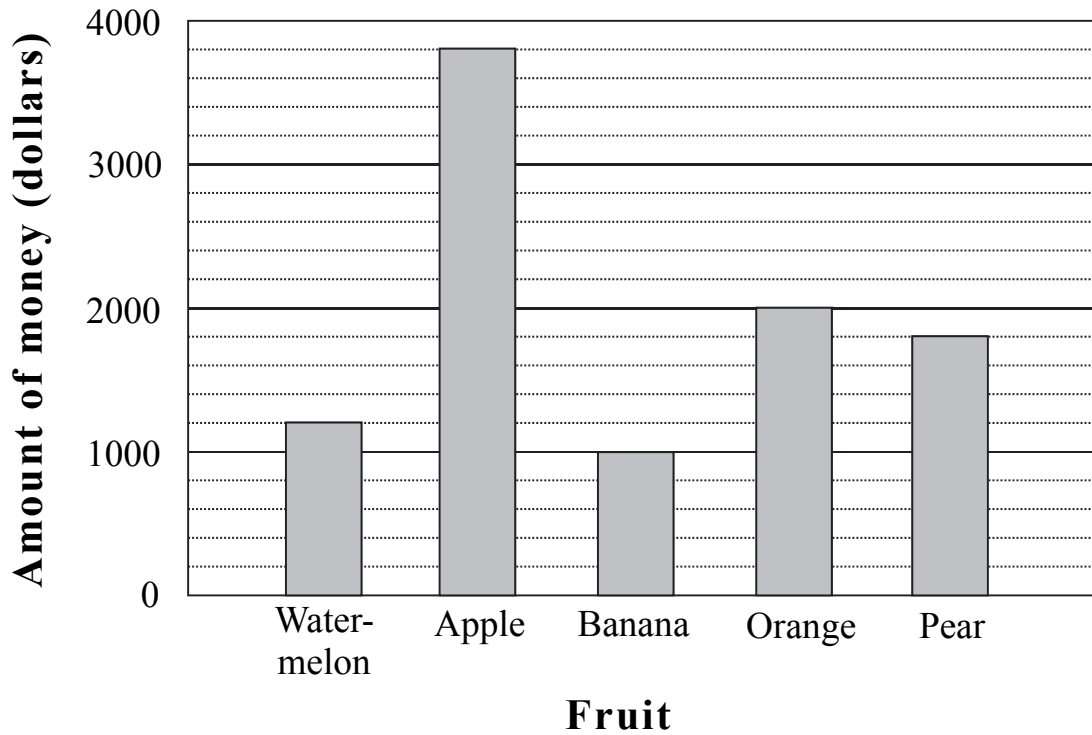


- (a) The number of passengers on _____ was
(day of the week)
- the most. There were _____ passengers.
- (b) The total number of passengers last week
was _____ .
- (c) The cable car stopped on one day for a safety check
last week.
- That day was _____ .
(day of the week)

Please do not write in the margin.

36. The following bar chart shows the amount of money Forest Fruit Store earned yesterday.

Amount of Money Forest Fruit Store Earned Yesterday



Please do not write in the margin.

- (a) The amount of money earned by selling _____ was the most.
The amount was _____ dollars.
- (b) The total amount of money Forest Fruit Store earned yesterday was _____ dollars.

37. Compare the monthly rainfall of the first and second quarters.

First quarter

Month	Monthly Rainfall (mm)
January	41.6
February	32.3
March	28.4

Second quarter

Month	Monthly Rainfall (mm)
April	64.6
May	52.9
June	30.1

The average monthly rainfall of the first quarter is

- ☐ A. more than that of the second quarter.
- ☐ B. equal to that of the second quarter.
- ☐ C. less than that of the second quarter.
- ☐ D. twice that of the second quarter.

— END OF PAPER —

