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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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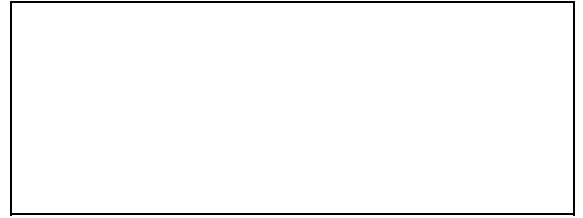
↑
此格只許填寫一個大楷英文字母

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. In the number 10 539, the digit '0' is in the _____ place.
2. 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.
3. Which of the following pairs of numbers are common multiples of 3 and 18?
 - ☐ A. 1, 3
 - ☐ B. 6, 18
 - ☐ C. 12, 36
 - ☐ D. 54, 90
4. List all the common factors of 15 and 75.
Answer: _____

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

(Circle the answer)

$$1\frac{2}{9} \quad , \quad \frac{8}{9} \quad , \quad \frac{1}{9}$$

6. Fill in the boxes with the correct numbers.

(a)

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

(b)

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

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

Answer: _____

Please do not write in the margin.

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

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

9. In the number 0.369, what is the value represented by the digit '3'?

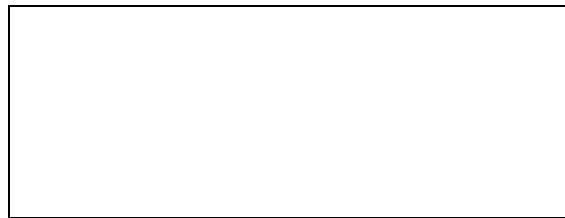
- ☐ A. 3
- ☐ B. $\frac{3}{10}$
- ☐ C. $\frac{3}{100}$
- ☐ D. $\frac{3}{1000}$

10. $106 \times 15 =$ _____

11. $1\frac{1}{4} + 9\frac{2}{5} - 6\frac{7}{10} =$

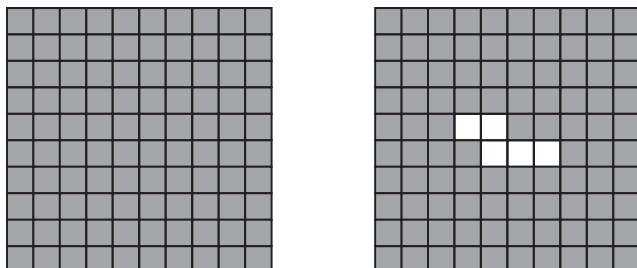
12. $1\frac{1}{3} \times \frac{15}{22} \times \frac{11}{25} =$

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13.



There are two large squares in the diagram above. Each large square stands for 1.

Use a decimal to represent the shaded part in the diagram.

Answer: _____

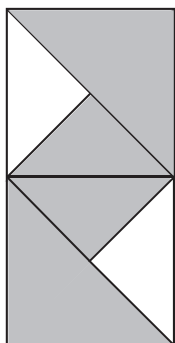
14. $3.6 \times 0.2 \times 1.5 =$ _____

15. 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

Please do not write in the margin.

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



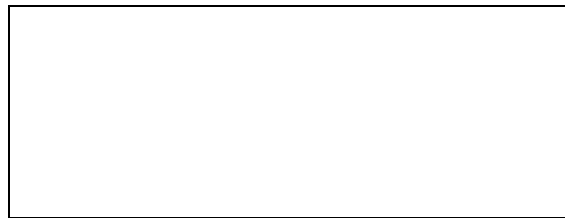
Answer: _____ % of the whole figure is shaded.

17. 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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18. (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:

19. A school bought 300 bottles of distilled water for the Games Days. 65% of distilled water was used up in the morning. How many bottles of distilled water were left in the afternoon?
(Show your working)

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Please do not write in the margin.

20. The calendar of January 2016 is shown below.

January						
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	30
31						

(a) The 30th of December 2015 is _____ .
(day of a week)

(b) Parents' Day is on the second Sunday of January 2016.

That day is the _____ of _____ .
(day) (month)

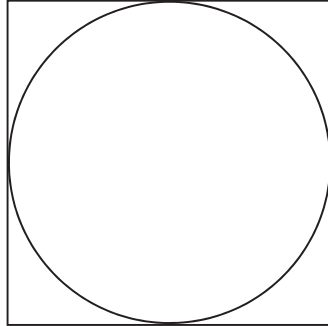
(c) 2016 is a leap year.

There are _____ days in February 2016.

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21.



Lena draws the largest circle in the square (as shown in the diagram above). The diameter of the circle is 2 cm.

- (a) The circumference of the circle is about _____ cm.
(Give the answer as a whole number)
- (b) The perimeter of the square is _____ cm.

22. Fill in the following blanks with suitable units.

- (a) The height of a chair is about 90 _____ .
- (b) The capacity of a milk bottle is about 200 _____ .

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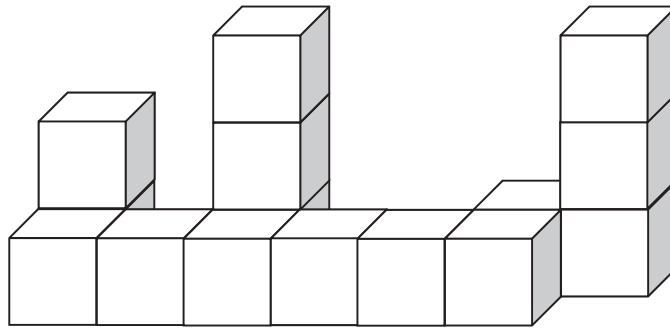
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23. Peter finished a 400-metre race in 55 seconds.

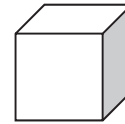
His average speed is _____ m / s.

(Give the answer correct to 1 decimal place)

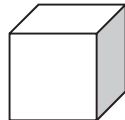
24.



The solid shown above is made up of



The volume of each

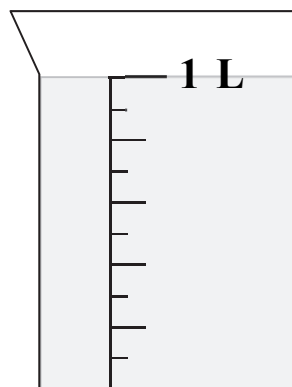
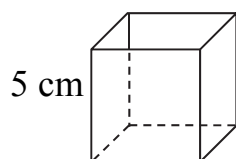


is 1 m^3 .

The volume of the solid is _____ .

(Give the answer with a unit)

25.



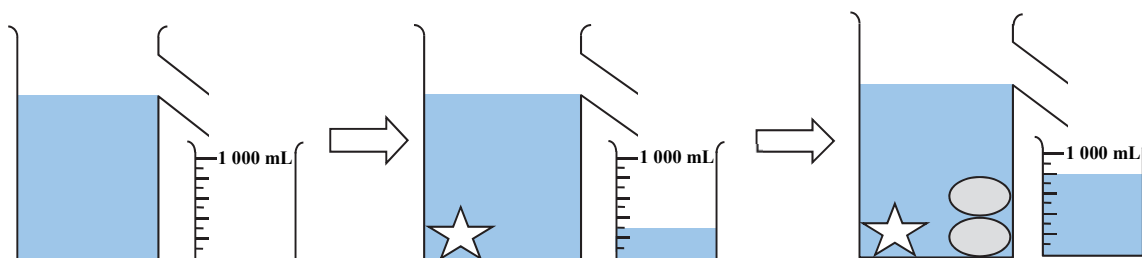
(a) The side of the cubic container above is 5 cm.

Its capacity is _____ mL.

(b) The water in the measuring cup can fill up

_____ cubic container(s) at most.

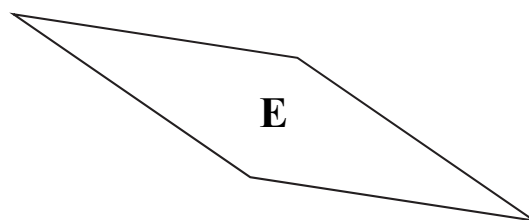
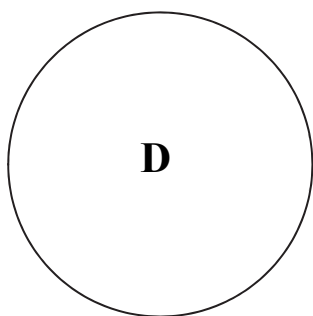
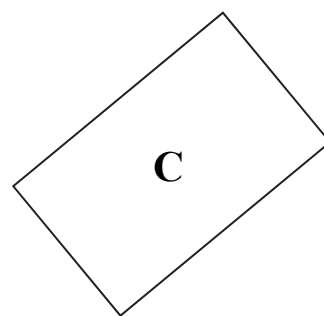
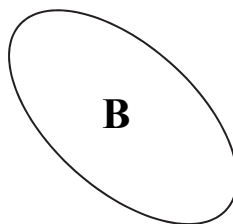
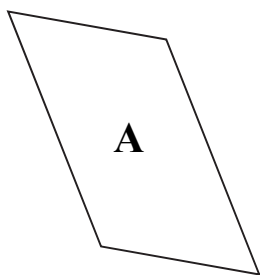
26.



(a) The volume of one ☆ is _____ cm^3 .

(b) The volume of one ○ is _____ cm^3 .

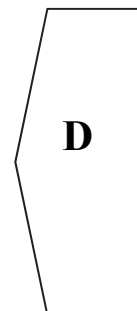
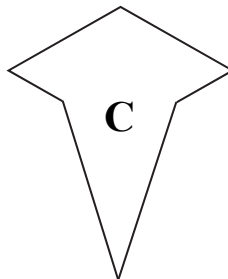
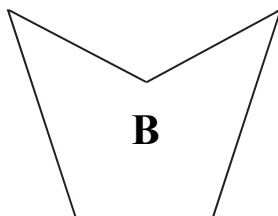
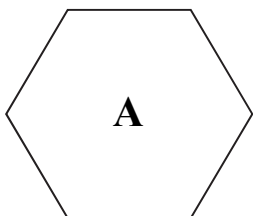
27. Study the 2-D shapes below. Write the letter(s) for the answer.



(a) Rhombus: _____

(b) Circle: _____

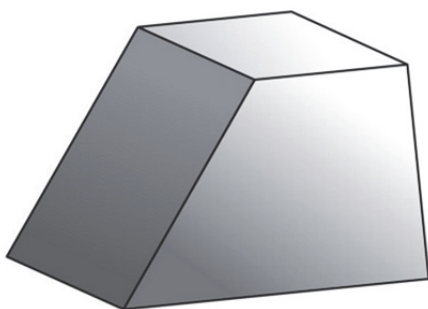
28. Study the following 2-D shapes. Write the letter(s) for the answer.



(a) Pentagon : _____

(b) Hexagon : _____

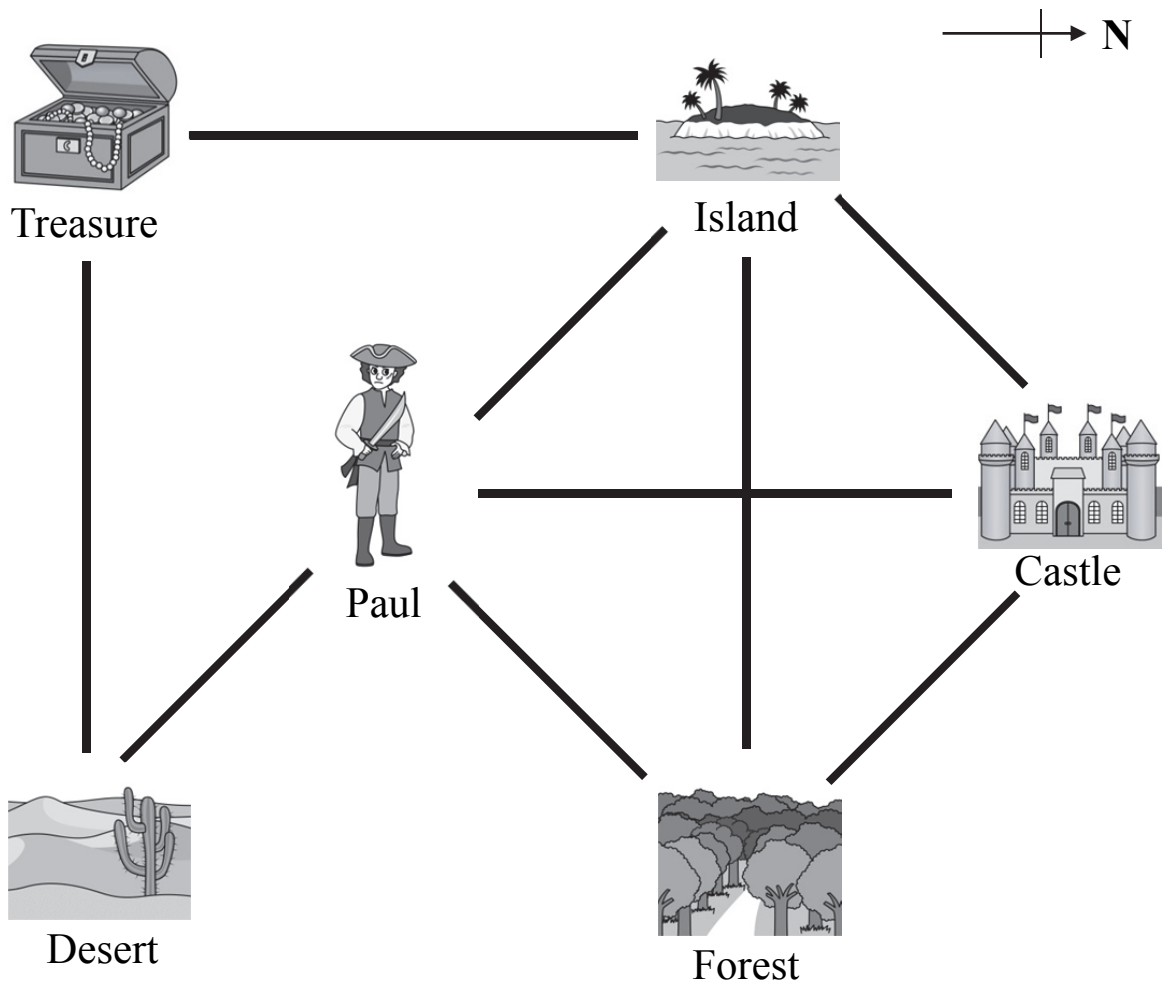
29.



The figure above is a prism.

It has _____ faces.

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



(a) Paul goes south-east to reach Desert. Then he turns

_____ to find Treasure.
(direction)

(b) Forest is to the _____ of Island.
(direction)

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Please do not write in the margin.

31. Which of the following stands for 'y is divided by 8 and then adds 3'?

☐ A. $\frac{8}{y} + 3$

☐ B. $\frac{y}{8} + 3$

☐ C. $\frac{y + 3}{8}$

☐ D. $\frac{y + 8}{3}$

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

A. $0 = 2 \times 0$

B. $12 - 6 = 30 \div 5$

C. $\frac{r}{4} - 5 = 0$

D. $(b + 5) \times 2$

E. $10 \times (M - 5) = 10$

Answer: _____

33.

$$\frac{y}{2} = 1\frac{1}{4}$$

 $y =$

34. A number is multiplied by 5. The result minus 20 is equal to 70. Find the number by *the method of solving an equation*.

(Show your working)

35.

The Voting Result for the Picnic Site of Class 6A

Each  stands for 1 vote

Geological Park							
Theme Park							
Coast Park							
Wetland Park							
Country Park							

- (a) Fill in the number of votes for Coast Park and Country Park in the table below.

Picnic Site	Geological Park	Theme Park	Coast Park	Wetland Park	Country Park
Number of votes	7	5		6	

- (b) Which two picnic sites got the same number of votes?

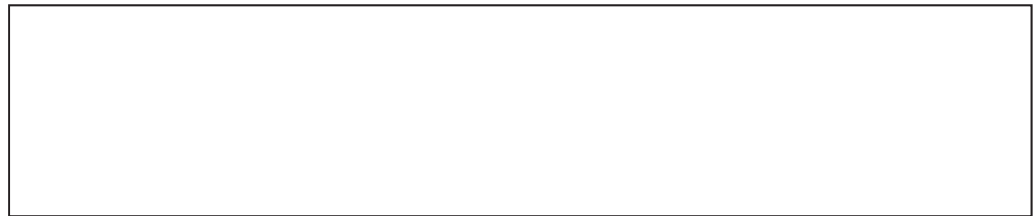
Answer: _____ Park and _____ Park got the same number of votes.

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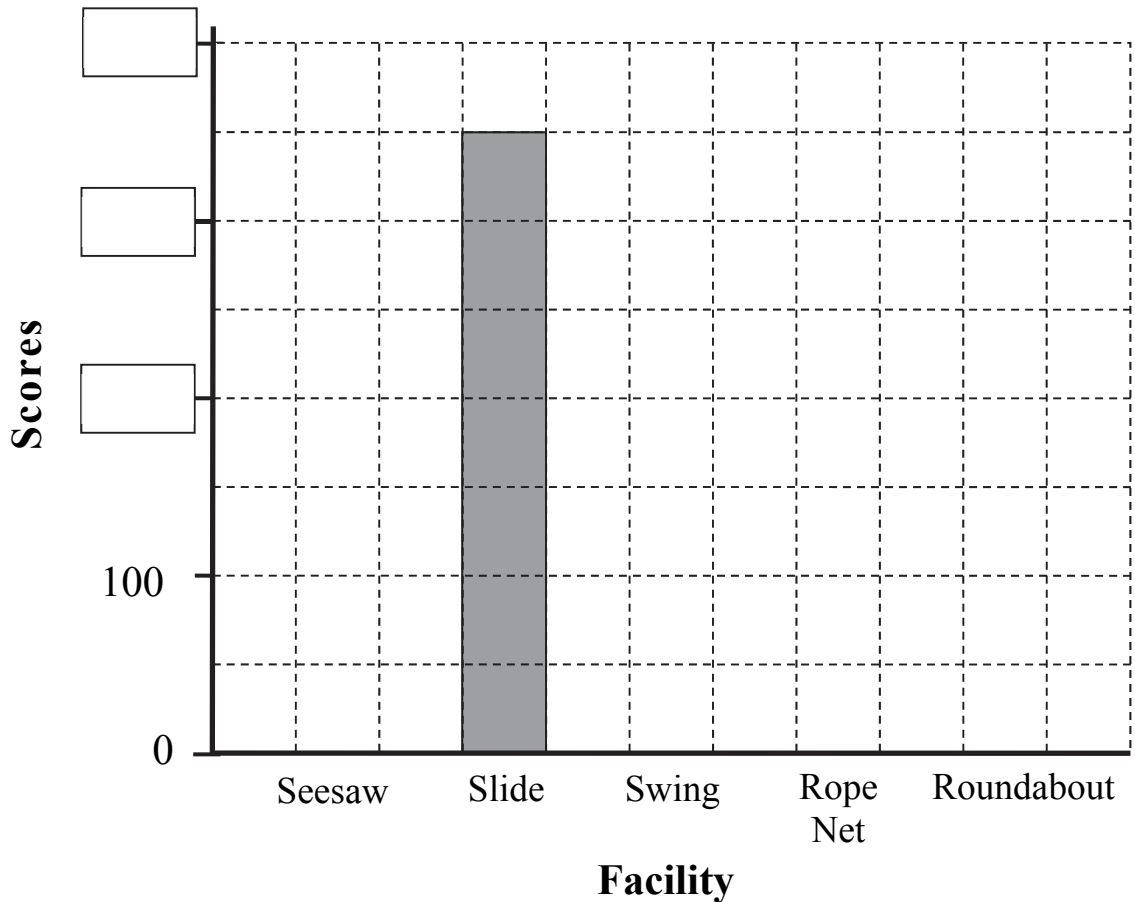
36. An estate has a play zone for children. The table below shows the scores given by the residents to five facilities in the play zone.

Facility	Seesaw	Slide	Swing	Rope Net	Roundabout
Scores	200	350	300	100	50

According to the information above, use a pencil to complete the following bar chart. Add the title and scales.



(Title)

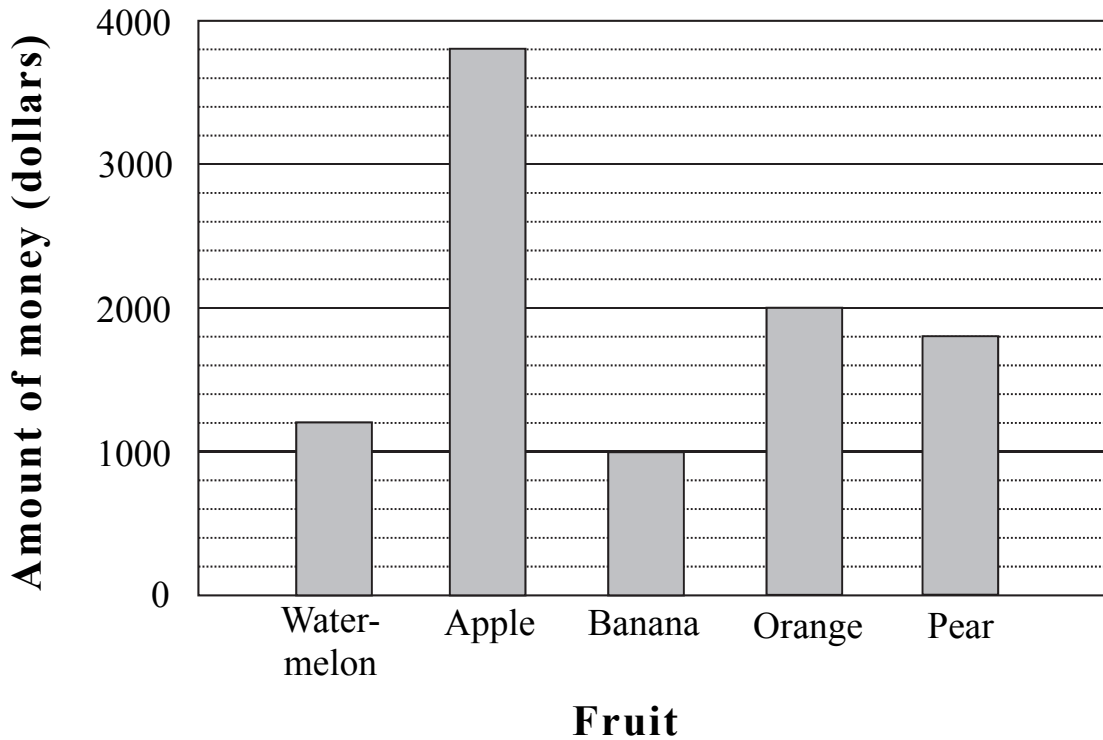


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37. The following bar chart shows the amount of money Forest Fruit Store earned yesterday.

Amount of Money Forest Fruit Store Earned Yesterday



- (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.

— END OF PAPER —

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