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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 36 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. Which of the following numbers has the digit '9' in its hundreds place?

- ☐ A. 349.08
☐ B. 3 490.8
☐ C. 34 908
☐ D. 349 080

2. 63 is a factor of

- ☐ A. 9.
☐ B. 21.
☐ C. 189.
☐ D. 305.

3. List all the factors of 87.

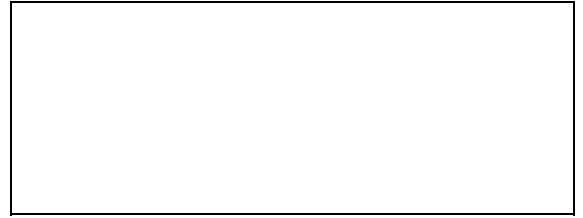
Answer: _____

4. The Least Common Multiple (L.C.M.) of 6 and 16 is _____ .

5. $\frac{30}{31}$ is * smaller than / equal to / larger than $\frac{31}{30}$.

(*Circle the answer)

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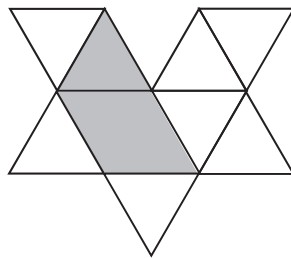
Please do not write in the margin.

6. The first common multiple of 6 and 13 is 78.

Which of the following numbers is their third common multiple?

- ☐ A. 26
- ☐ B. 39
- ☐ C. 156
- ☐ D. 234

7. Shade the figure below so that the shaded part is $\frac{1}{2}$ of the whole figure.



Please do not write in the margin.



8. (a) Change $2\frac{2}{11}$ into an improper fraction.

Answer:

- (b) Change $\frac{76}{7}$ into a mixed number.

Answer:

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

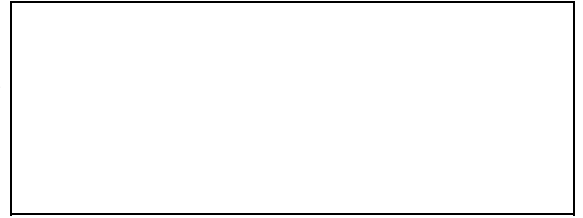
(Circle the answer)

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

10. Change 1.05 into a fraction and reduce it to the simplest form.

Answer:

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11. 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. $\frac{3}{1000}$

12. $22 \div (11 \times 2) =$ _____

13. $\frac{1}{5} + 3\frac{2}{5} - 1\frac{4}{5} =$

14. $\frac{1}{9} \times 4\frac{2}{5} \div \frac{11}{15} =$

15. $83.4 + 0.96 - 7.46 =$ _____

16. $1.08 \div 1.8 =$ _____

Please do not write in the margin.

17. Mother equally divides $6\frac{7}{8}$ kg of rice into 5 bags for donation to the Food Bank. What is the weight of each bag of rice?

(Show your working)

18.

Removal Sale

All items sold at 35% off

The original price of a wardrobe was \$5 000. During the removal sale, it will be sold at \$ _____ .

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19. Each carnation cost 6.5 dollars. Kenny had 100 dollars.
How much was left after he bought 11 carnations?
(Show your working)

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20. (a) Change 1.23% into a decimal.

Answer: _____

- (b) Change 0.0066 into a percentage.

Answer: _____ %



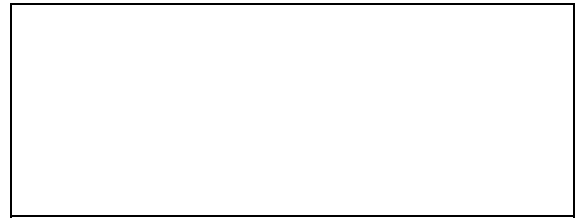
21. A pencil costs 1.8 dollars. A fountain pen costs 57.6 dollars.

The price of a fountain pen is _____ times that of a pencil.

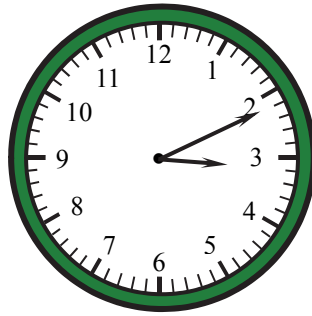
22. Each sticker costs \$9.80. Miss Cheung has \$407.50 . Which of the following expressions is most suitable for estimating the largest number of stickers she can buy?

- ☐ A. $400 \div 9$
- ☐ B. $500 \div 9$
- ☐ C. $400 \div 10$
- ☐ D. $500 \div 10$

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23. 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.

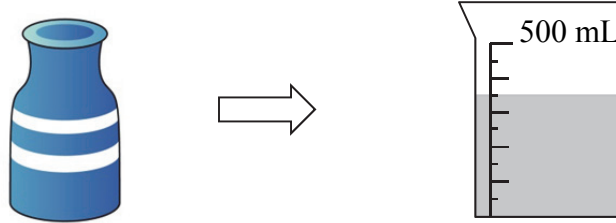
- (b) The admission time to the hall was half past three in the afternoon. In '24-hour time', the admission time was _____ : _____ .

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

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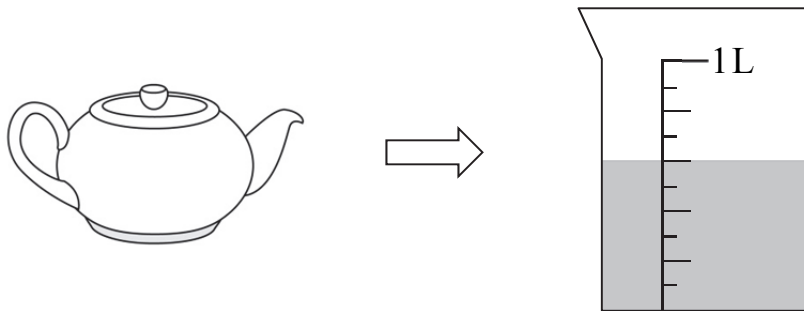
Please do not write in the margin.

24. (a) A vase is filled up with water. Pour all the water in the vase into the measuring cup.



The capacity of the vase is _____ mL.

- (b) A teapot is filled up with tea. Pour all the tea in the teapot into the measuring cup.



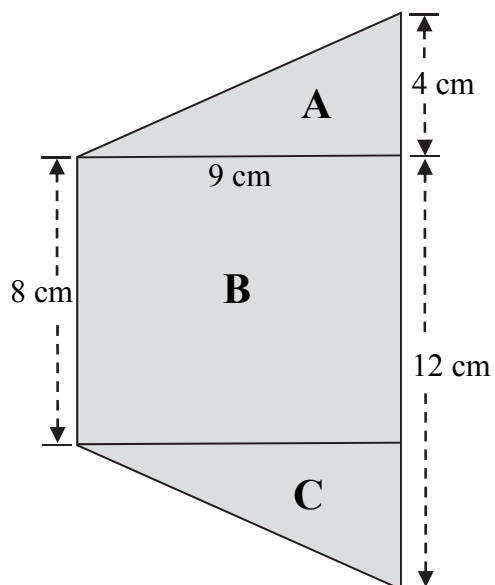
The capacity of the teapot is _____ mL.

- (c) The capacity of the vase is _____ L

* more / less than that of the teapot.

(*Circle the answer)

25.



The trapezium above is made up of triangles **A** and **C** and rectangle **B**.

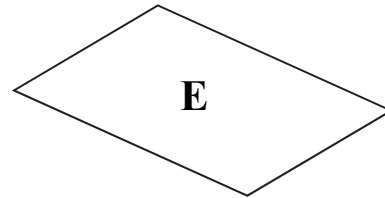
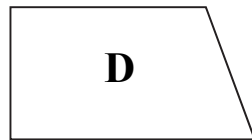
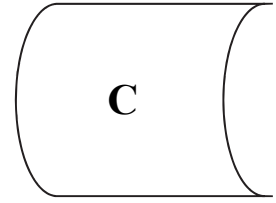
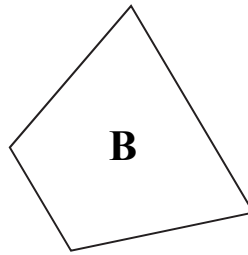
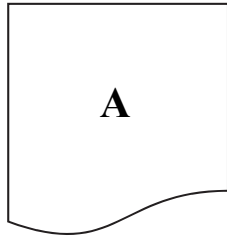
- (a) The area of **A** is _____ cm^2 .
- (b) The area of **B** is _____ cm^2 .
- (c) **C** is * an isosceles / a right-angled / an equilateral triangle.
- (*Circle the answer)

26. Peter drives a racing car at an average speed of

200 _____ .

(Give a suitable unit)

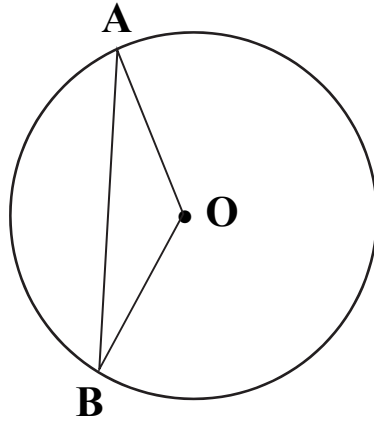
27. Study the 2-D shapes below. Write the letter(s) for the answer.



(a) Trapezium : _____

(b) Parallelogram : _____

28. A teacher drew a triangle and a circle. **O** is the centre of the circle.

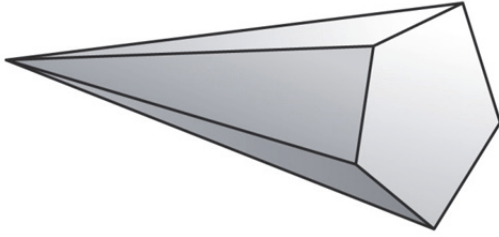


- (a) The teacher drew
* a right-angled / an isosceles / an equilateral triangle. (*Circle the answer)
- (b) Use a ruler to measure the length of **AB**.
Answer: The length of **AB** is about _____ cm.
(Give your answer correct to one decimal place)
- (c) The length of **AB** is
* smaller than / equal to / larger than
the diameter of the circle.
(*Circle the answer)

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29.



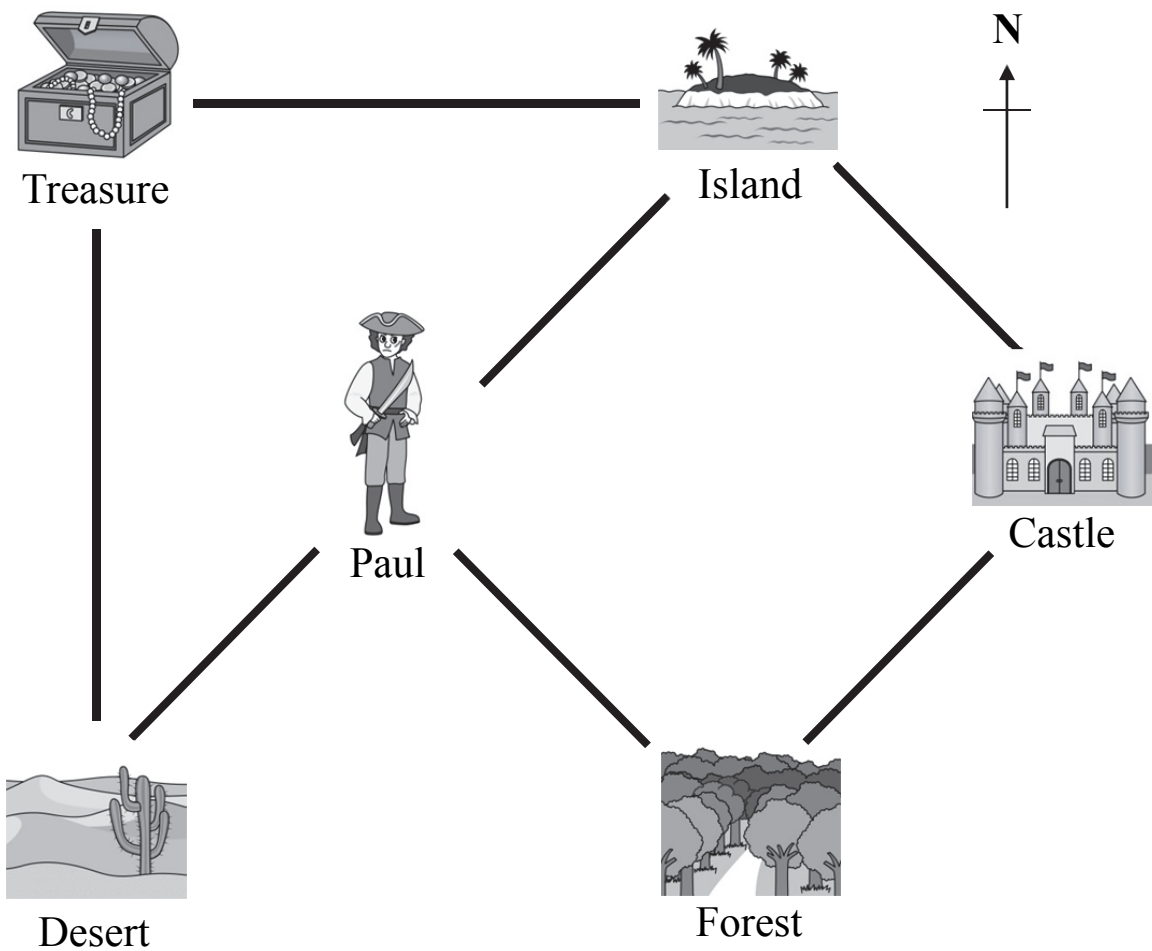
The figure above is a pyramid.

It has _____ edges.

30. 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. $(K + 3) \times 2$

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



(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)

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Please do not write in the margin.

32. $25 = x - 8$

$x =$

33. 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)

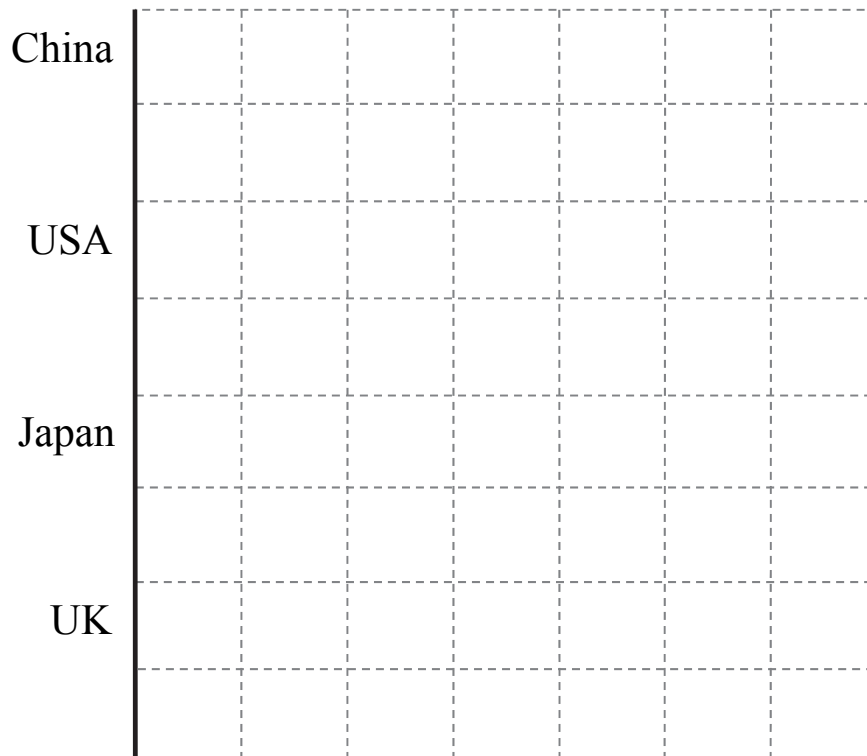
34. The following table shows the number of postcards of different countries collected by Yanny.

Country	China	USA	Japan	UK
Number of Postcards	50	20	10	30

According to the information above, construct a pictogram and give it a title.

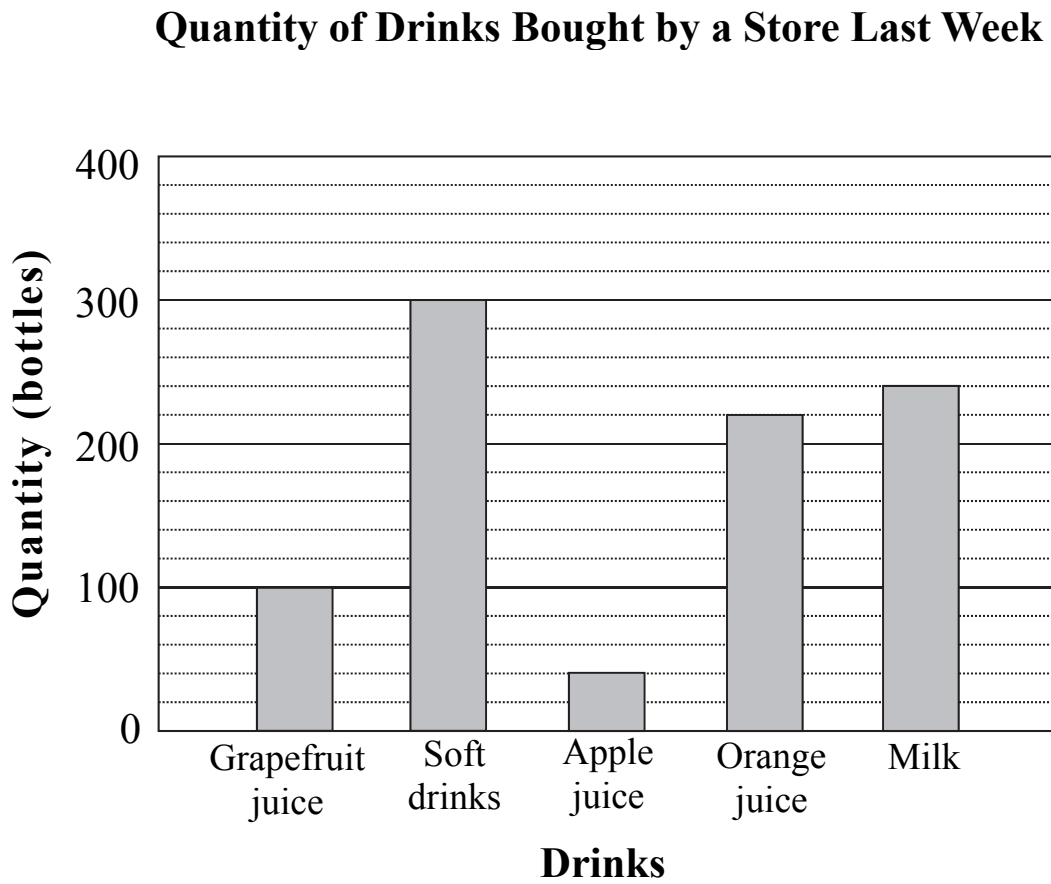
(Title)

Each **P** stands for 10 postcards



Please do not write in the margin.

35. The following bar chart shows the quantity of drinks bought by a store last week.



Please do not write in the margin.

- (a) The quantity of _____ bought was the smallest.
Only _____ bottles were bought.
- (b) The total quantity of milk and orange juice bought was _____ bottles.
- (c) The quantity of soft drinks bought was _____ times that of grapefruit juice.

36. 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 —

