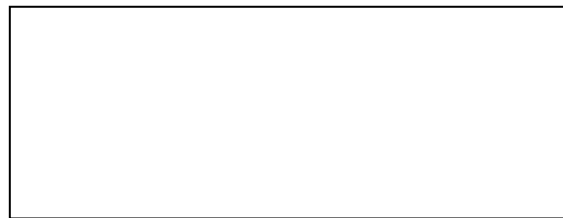




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Education Bureau

Territory-wide System Assessment 2018◆

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

P			
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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

◆2018 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 2018 P6 TSA has been suspended. Participation in the 2018 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 '6' in its ten thousands place?

- ☐ A. 6 182
☐ B. 60 281
☐ C. 82 106
☐ D. 82 160

2. Which of the following numbers is a multiple of 28?

- ☐ A. 14
☐ B. 46
☐ C. 56
☐ D. 64

3. List all the factors of 76.

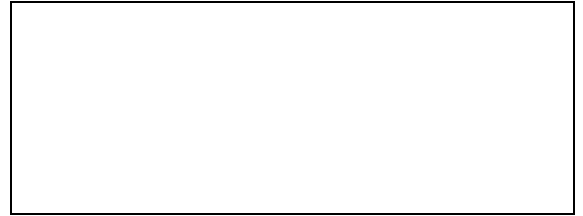
Answer: _____

4. The Highest Common Factor (H.C.F.) of 16 and 24
is _____ .

5. $\frac{4}{7}$ is * smaller than / equal to / larger than $\frac{7}{7}$.

(*Circle the answer)

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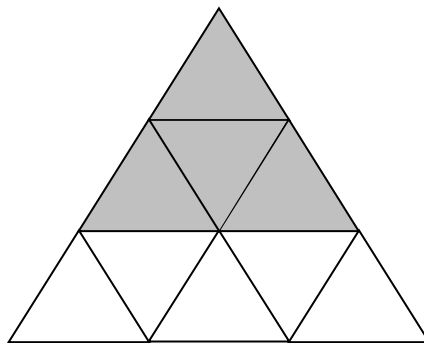
Please do not write in the margin.

6. The first common multiple of 6 and 15 is 30.

Which of the following numbers is their third common multiple?

- ☐ A. 3
- ☐ B. 18
- ☐ C. 45
- ☐ D. 90

7. Shade the figure below with a pencil so that the shaded part is $\frac{2}{3}$ of the whole figure.



Please do not write in the margin.



8. (a) Change $4\frac{2}{3}$ into an improper fraction.

Answer:

- (b) Change $\frac{25}{7}$ into a mixed number.

Answer:

9. Which of the following fractions is the smallest?

(Circle the answer)

$$\frac{3}{7}, \quad \frac{2}{7}, \quad \frac{3}{5}$$

10. Change 0.45 into a fraction and reduce it to the simplest form.

Answer:

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11. In the number 1.38, what is the value represented by the digit '3'?

- ☐ A. 3
- ☐ B. 30
- ☐ C. $\frac{3}{10}$
- ☐ D. $\frac{3}{100}$

12. $12 \div 14 \times 21 =$ _____

13. $\frac{1}{3} + \frac{5}{6} - \frac{7}{9} =$

14. $1\frac{7}{8} \div 2\frac{1}{7} =$

Please do not write in the margin.

15. $2.4 + 1.8 - 0.05 =$ _____

16. $1.8 \times 5 \times 7.2 =$ _____

17. (a) Change 0.28 into a percentage.

Answer: _____ %

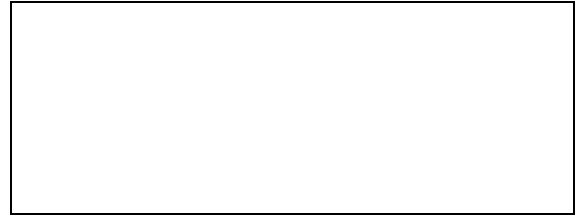
(b) Change 0.01% into a decimal.

Answer: _____

18. There are 96 trees in the park. $\frac{3}{8}$ of them are pine trees.

There are _____ pine trees in the park.

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19.

**Carnival
Admission Ticket**

\$10.00 each



Game Coupon

\$5.50 each



William buys 1 carnival admission ticket and 5 game coupons. How much should he pay altogether?

(Show your working)

Please do not write in the margin.

Please do not write in the margin.

20.

SaleAll computers: **20% off**

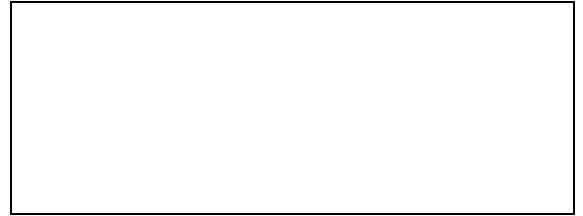
The original price of a computer was 5 500 dollars.

During the sale, it was sold at _____ dollars.

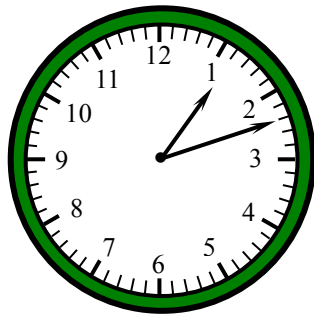
21. A pencil costs 8.9 dollars and Stella has 102 dollars.
Which of the following expressions is most suitable for estimating the number of pencils she can buy at most?

- ☐ A. $110 \div 9$
- ☐ B. $100 \div 9$
- ☐ C. $110 \div 8$
- ☐ D. $100 \div 8$

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22. Jane and Kenny had lunch together in the canteen.



- (a) The clock above showed the time Jane arrived at the canteen.

The time was _____ minutes past _____
in the afternoon.

- (b) Kenny arrived at the canteen at 1:20 p.m.

In '24-hour time', Kenny arrived at the canteen
at _____ : _____ .

- (c) Kenny arrived at the canteen

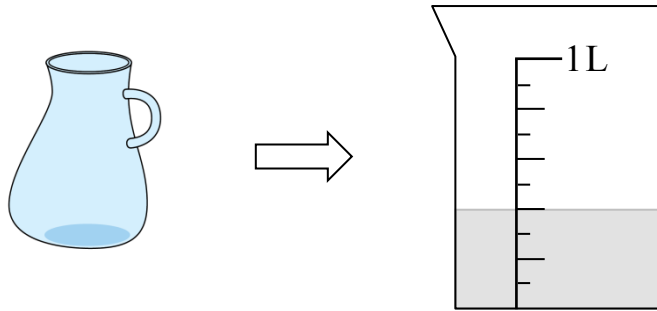
_____ minute(s) * earlier / later than Jane.

(*Circle the answer)

Please do not write in the margin.

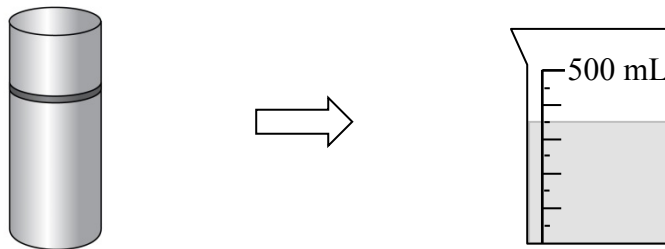
Please do not write in the margin.

23. (a) Fill up a jar with water. Then pour all the water in the jar into a measuring cup.



The capacity of the jar is _____ L.

- (b) Fill up a bottle with water. Then pour all the water in the bottle into a measuring cup.



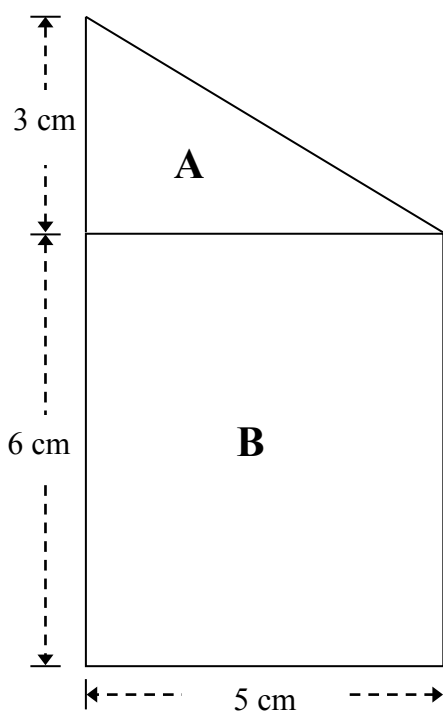
The capacity of the bottle is _____ mL.

- (c) The capacity of the jar is

* larger than / equal to / smaller than
the capacity of the bottle.

(*Circle the answer)

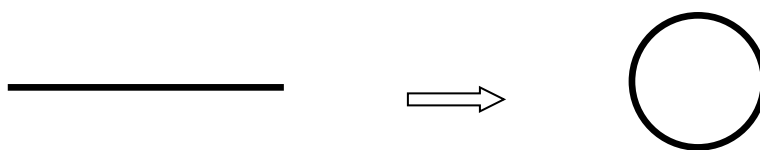
24.



The trapezium above is made up of a right-angled triangle **A** and a rectangle **B**.

- (a) The area of **A** is _____ cm^2 .
- (b) The area of the trapezium is _____ cm^2 .

25.

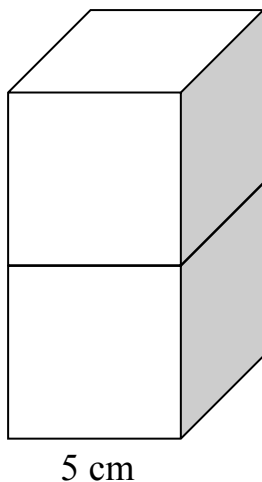


An iron wire 15 cm long is bent into a circular coil.

The diameter of the circular coil is about _____ cm.

(Give the answer as a whole number)

26.



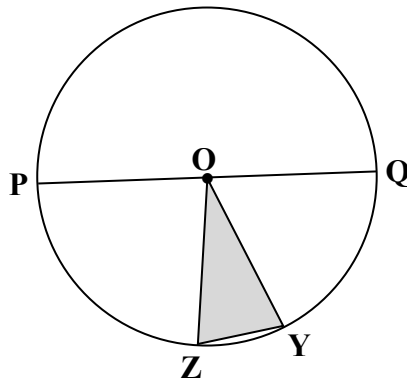
The cuboid above is made up of 2 cubes. The side of each cube is 5 cm.

The volume of the cuboid is _____ cm^3 .

27. The average speed of a school bus is

- ☐ A. 40 km/h.
- ☐ B. 40 km.
- ☐ C. 40 h/km.
- ☐ D. 40 h.

28. In the figure below, **O** is the centre of the circle. **P**, **Q**, **Y** and **Z** are points on the circumference.



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

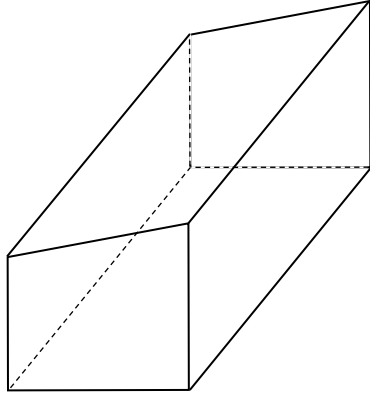
- ☐ A. **PQ**
- ☐ B. **OY**
- ☐ C. **YZ**
- ☐ D. **OZ**

- (b) The shaded part in the figure is

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

(*Circle the answer)

29.



The figure above is a * pyramid / prism .

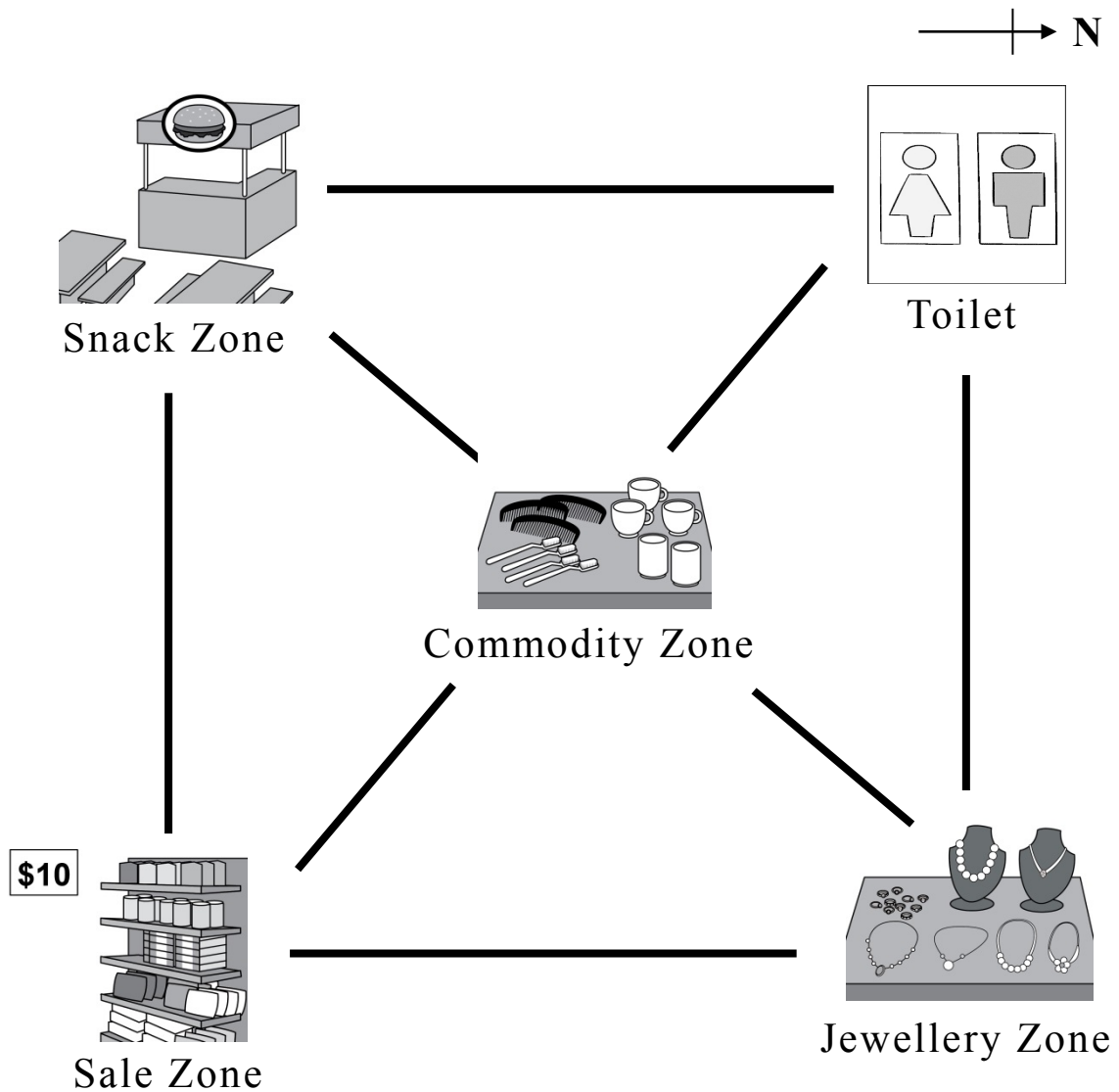
(*Circle the answer)

It has _____ vertices.

30. There are y pieces of cake in a box. A customer can get one more piece of cake for buying a box of cake. If Wilson buys 6 boxes of cake, how many pieces of cake can he get altogether?

- ☐ A. $6y$
- ☐ B. $6y + 1$
- ☐ C. $y + 1 \times 6$
- ☐ D. $(y + 1) \times 6$

31. The floor plan of a shopping mall is shown below.



(a) Snack Zone is to the _____ of Sale Zone.
(direction)

(b) Starting from Commodity Zone, Linda goes
_____ to reach Sale Zone.
(direction)

Then she turns _____ to reach
(direction)
Jewellery Zone.

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Please do not write in the margin.

32. $12 = y - 5$

$y =$

33. After Eva has spent 60 dollars of her pocket money, she donates one third of the remaining amount for charity. Eva donates 90 dollars. Find the original amount of Eva's pocket money by *the method of solving an equation*. (Show your working)

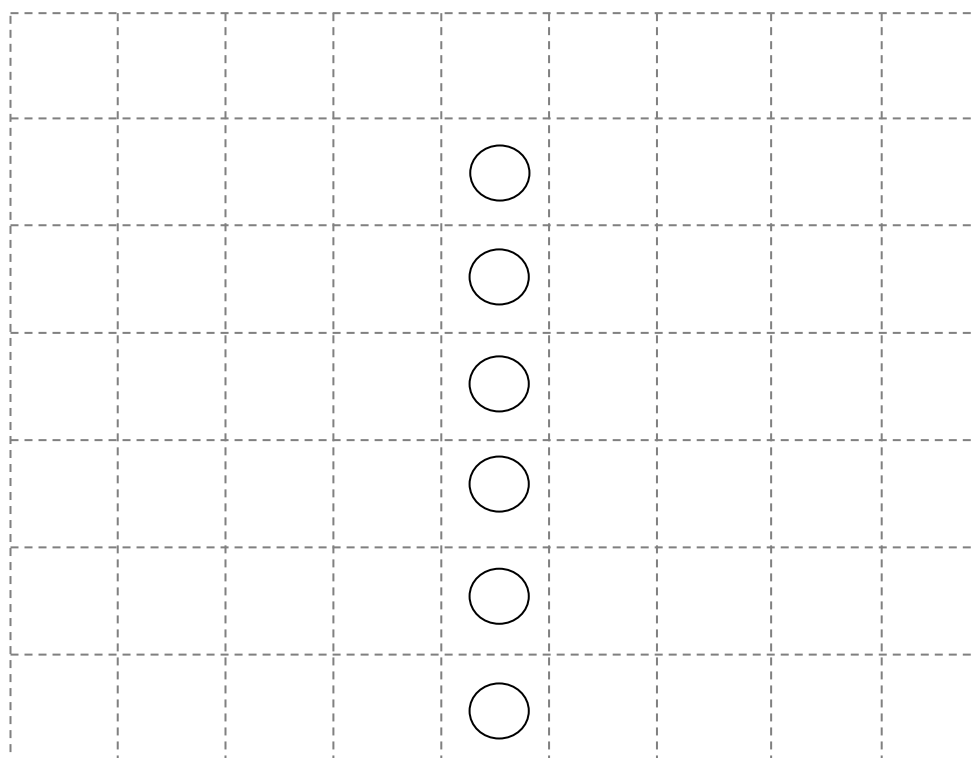
34. A teacher did a survey on the favourite talent shows of Primary Six pupils. The results are as follows:

Talent show	Singing	Drama	Magic	Dancing	Kung Fu
Number of pupils	50	30	60	40	20

According to the information in the table above, complete the pictogram below. Give it a title and add the names of the talent shows.

(Title)

Each ○ stands for 10 pupils



Drama

Dancing

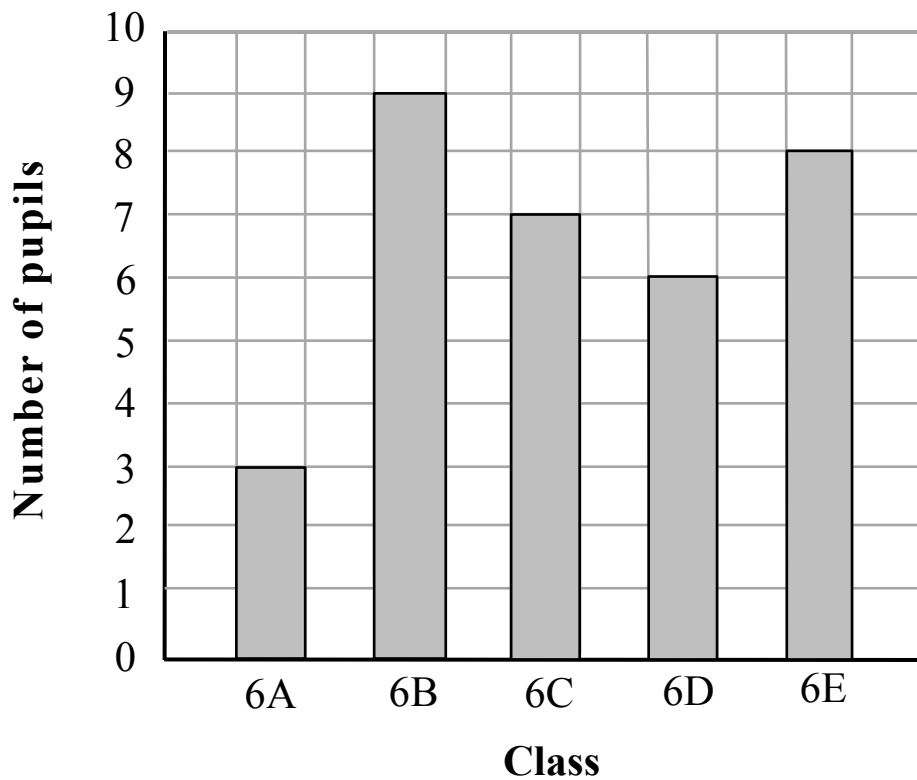
Kung Fu

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35. The following bar chart shows the number of pupils in Primary Six classes who took part in the speech competition.

**Number of Pupils in Primary Six Classes
Who Took Part in the Speech Competition**



- (a) The number of Class 6B pupils who took part in the speech competition was _____ times that of Class 6A.
- (b) A total of _____ Primary Six pupils took part in the speech competition.

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36. There are 9 passengers in a lift. Their total weight is 470 kg.

After a passenger weighing 70 kg has entered the lift, the average weight of the passengers in the lift is _____ kg.

— END OF PAPER —

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