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Please stick the barcode label in the box

Education Bureau

Territory-wide System Assessment 2017

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

1. Arrange the following numbers from the largest to the smallest.

52 938 , 8 194 , 52 026

Answer: _____ , _____ , _____
(Largest) (Smallest)

2. List all the common factors of 18 and 24.

Answer: _____

3. Fill in the boxes with the correct numbers.

(a)

$$\frac{15}{22} = \frac{75}{\boxed{}}$$

(b)

$$\frac{20}{48} = \frac{\boxed{}}{12}$$

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4. $\frac{5}{5}$ is * smaller than / equal to / larger than $\frac{11}{12}$.

(*Circle the answer)

5. Change $\frac{3}{7}$ into a decimal correct to two decimal places.

Answer: _____

6. When 470 is divided by 23, the quotient is _____
and the remainder is _____ .

7. Which of the following numbers has the digit '4' in its tenths place?

- ☐ A. 20 345
- ☐ B. 2 034.5
- ☐ C. 203.45
- ☐ D. 20.345

Please do not write in the margin.

8. $\frac{1}{9} + 2\frac{2}{9} - 1\frac{4}{9} =$

9. $\frac{5}{6} \div 6 \times \frac{2}{5} =$

10. Calculate $8.12 \div 3.2$.

Round the answer to two decimal places.

Answer: _____

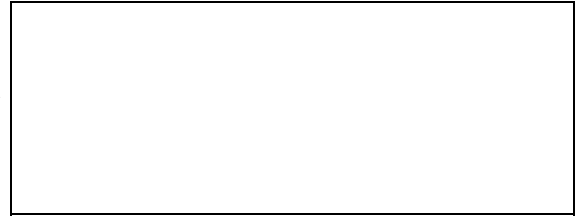
11. $1.7 \times (2.08 + 3.92) =$ _____

12. Miss Cheung bought a tracksuit at a special price. The original price was 899 dollars. She paid with a 500-dollar note and got 191 dollars change.

Which of the following expressions is most suitable for estimating the amount (in dollars) Miss Cheung saved?

- ☐ A. $800 - (500 - 100)$
- ☐ B. $800 - (500 - 200)$
- ☐ C. $900 - (500 - 100)$
- ☐ D. $900 - (500 - 200)$

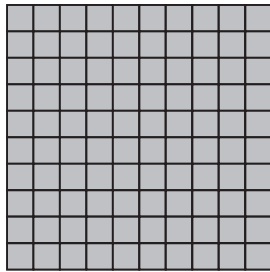
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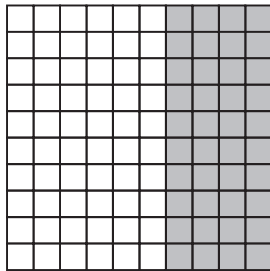
13. Nancy and Paul ran together in the park. Nancy ran for 22.5 minutes, Paul ran for 15 minutes. The running time of Nancy is _____ times that of Paul.

14.



stands for 1.

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



- ☐ A. 40
- ☐ B. 0.4
- ☐ C. 0.04
- ☐ D. $\frac{4}{10}$

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Please do not write in the margin.

15. The original price of a mobile phone is \$3 500. William buys a mobile phone at 80% of its original price.

It is \$ _____ cheaper than the original price.

16. Each green umbrella costs 28.5 dollars. Each black umbrella costs 26.5 dollars. Paul buys 1 green umbrella and 5 black umbrellas. How much does he have to pay altogether?

(Show your working)



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17. (a) Change $1\frac{3}{20}$ into a percentage.

Answer: _____ %

- (b) Change 0.5% into a fraction and reduce it to the simplest form.

Answer:

18. The circumference of a circular bicycle trail is 880 m.
Paul's average cycling speed is 8 m/s.

- (a) Paul cycles once round the bicycle trail in
_____ seconds.

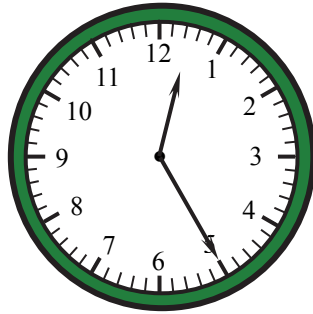
- (b) The diameter of the bicycle trail is _____ m.

(Take π as $\frac{22}{7}$)

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19. Peter went to Lamma Island by ferry.



- (a) The clock above showed the time Peter arrived at the pier.

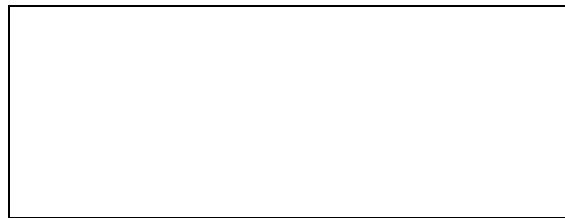
The time was _____ minutes past _____
in the afternoon.

- (b) The next ferry departed at 1:10 p.m.

In '24-hour time', the ferry departed
at _____ : _____ .

- (c) After Peter arrived at the pier, the next ferry
departed in _____ minute(s).

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20. Fill in the following blanks with suitable units.

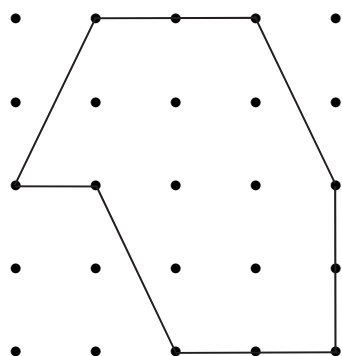
(a) An umbrella is about 80 _____ long.

(b) A suitcase weighs about 2 _____ .

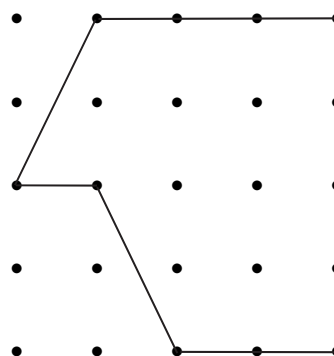
(c) The capacity of a soft drink can is about

350 _____ .

21.



X



Y

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

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

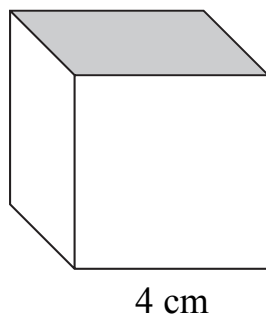
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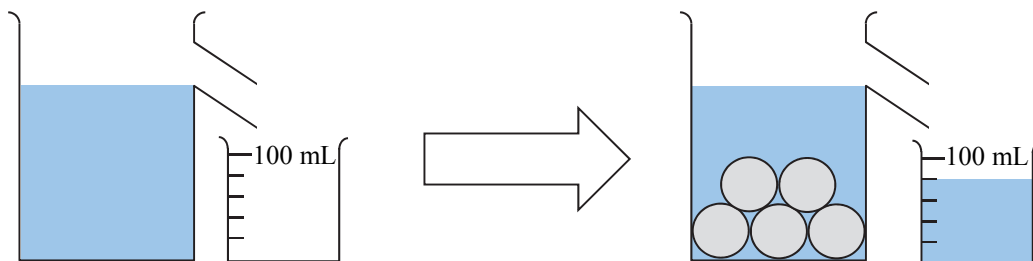
22.



The volume of the cube above is

- ☐ A. 16 cm^2 .
- ☐ B. 16 cm^3 .
- ☐ C. 64 cm^2 .
- ☐ D. 64 cm^3 .

23.



According to the information of the diagram above,

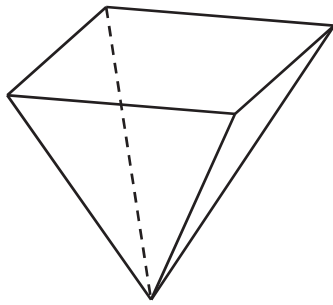
the volume of each  is _____ cm^3 .

Please do not write in the margin.

24. In the Olympic Games, an athlete finished the 100-metre race at an average speed of

- ☐ A. 10 m.
- ☐ B. 10 m/s.
- ☐ C. 10 s.
- ☐ D. 10 s/m.

25.

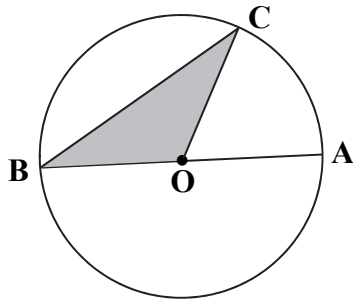


The figure above is a * pyramid / prism .

(* Circle the answer)

It has _____ edges.

26. In the figure below, **O** is the centre of the circle.



- (a) The length of straight line **AB** is equal to the
- * radius / diameter / circumference of the circle.

(*Circle the answer)

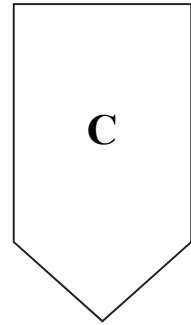
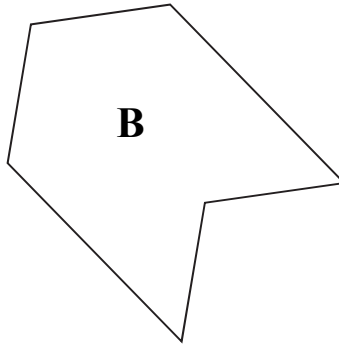
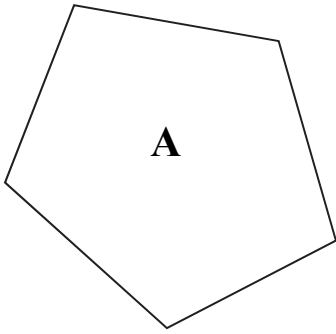
- (b) The shaded part is

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

(*Circle the answer)

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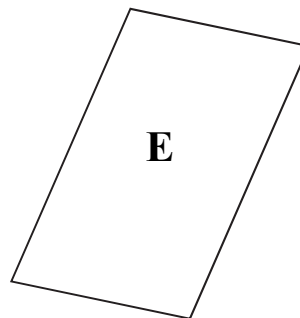
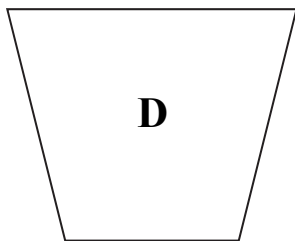
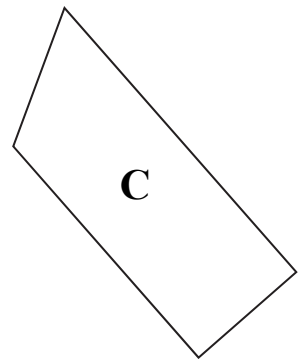
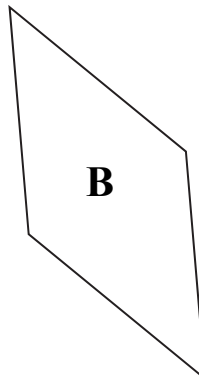
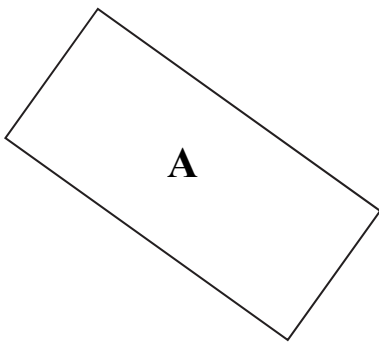
27. Study the 2-D shapes below. Write the letter(s) for the answer.



Pentagon: _____

Hexagon: _____

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



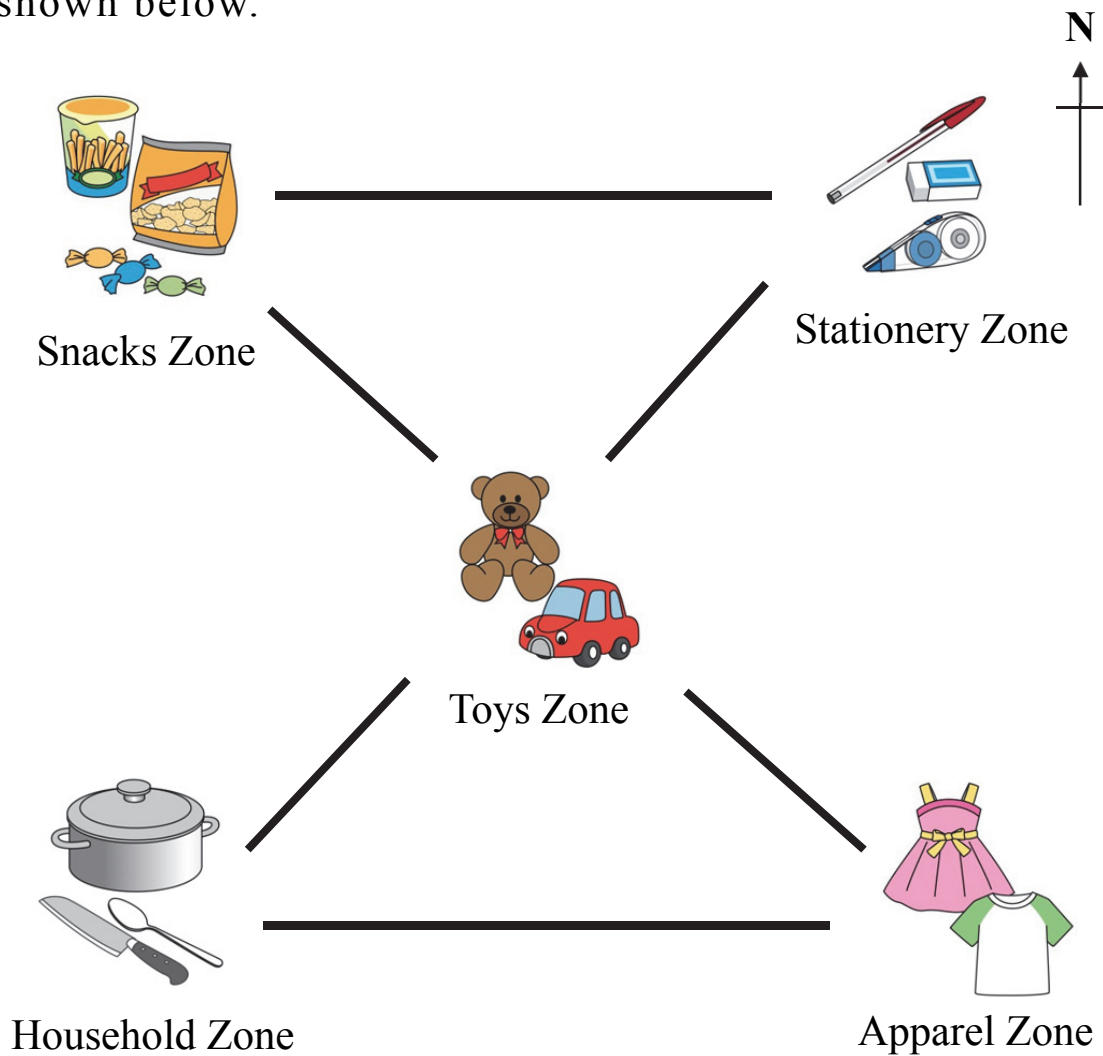
(a) Rhombus: _____

(b) Trapezium: _____

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Please do not write in the margin.

29. The floor plan of different zones in a department store is shown below.



Please do not write in the margin.

- (a) Starting from Toys Zone, John goes _____
(direction)
to reach Snacks Zone. Then he turns _____
(direction)
to reach Stationery Zone.
- (b) Household Zone is to the _____ of Toys
(direction)
Zone.

30. Agnes has 50 dollars of pocket money. She spends y dollars each day. After 5 days, she saves the remaining amount. How many dollars does Agnes save?

- ☐ A. $50 - 5y$
- ☐ B. $5y - 50$
- ☐ C. $(y - 50) \times 5$
- ☐ D. $(50 - y) \times 5$

31. Which of the following is an equation?

- ☐ A. x
- ☐ B. $6T - 4$
- ☐ C. $R + 4 = 5 \times 2$
- ☐ D. $\frac{14}{7} = 2$

32. $\frac{y}{8} = 12$

$y =$

33. Billy had x dollars of pocket money originally. After spending 16 dollars on snacks, he used one third of the remaining amount of pocket money to buy a storybook. The storybook cost 30 dollars.

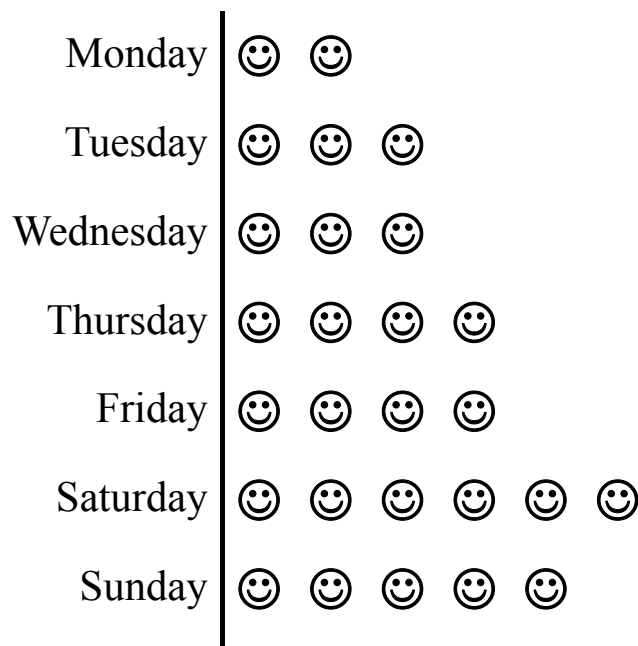
Find Billy's original amount of pocket money by ***the method of solving an equation***. (Show your working)

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34. The following pictogram shows the number of customers of a fast food shop last week.

**Number of Customers of a Fast Food Shop
Last Week**

Each 😊 stands for 1 000 customers

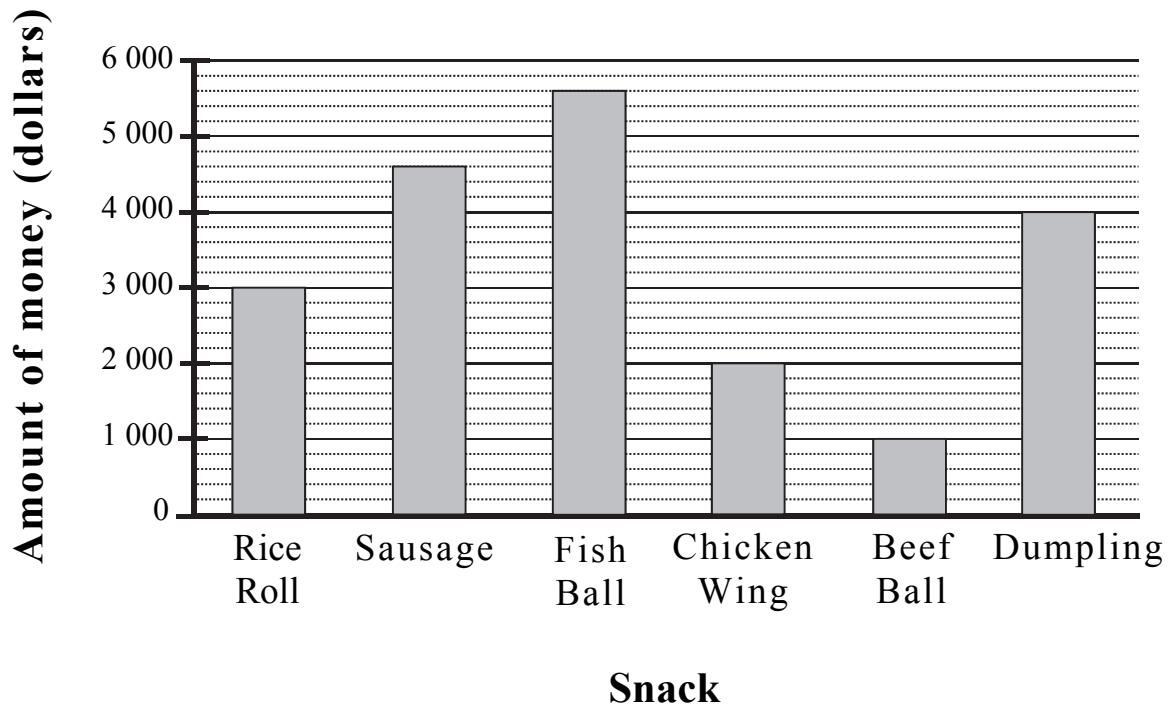


- (a) The number of customers on _____
(day of the week)
was the smallest.
- There were _____ customers.
- (b) The total number of customers last week
was _____ .

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35. The following bar chart shows the amount of money a snack bar earned last month.

Amount of Money a Snack Bar Earned Last Month



- (a) The amount of money earned by selling _____ was the most.
The amount was _____ dollars.
- (b) The amount of money earned by selling beef balls was _____ % of that of chicken wings.

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Please do not write in the margin.

Please do not write in the margin.

36. The following are the online duration (in minutes) of Mr Chan in the past five days.

65 , 85 , 80 , 85 , 90

The average daily online duration of Mr Chan
is _____ minutes.

— END OF PAPER —

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