



* 6 M E 1 *

6	M	E	1
---	---	---	---



↑
請把電腦條碼貼在方格內
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			
---	--	--	--

Class
班別

6	
---	--

Class No.
班號

--	--

↑
此格只許填寫一個大楷英文字母
Write one **capital letter** in this box

1. Which of the following numbers has the digit '5' in its thousands place?

☐ A. 53 420
☐ B. 42 350
☐ C. 25 043
☐ D. 30 542

2. Which of the following numbers is a multiple of 36?

☐ A. 3
☐ B. 12
☐ C. 36
☐ D. 98

3. List all the factors of 85.

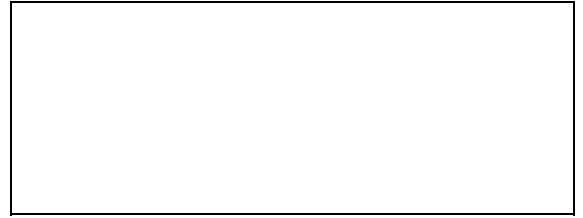
Answer: _____

4. The Highest Common Factor (H.C.F.) of 28 and 98 is _____ .

5. Which of the following fractions has its value nearest to 1?
(Circle the answer)

$1\frac{5}{7}$, $1\frac{5}{8}$, $1\frac{5}{6}$

請把電腦條碼貼在方格內
Please stick the barcode label in the box



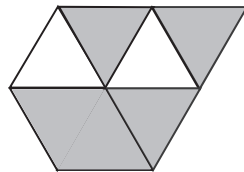
Please do not write in the margin.

6. The first common multiple of 6 and 9 is 18.

Which of the following numbers is their fourth common multiple?

- ☐ A. 3
- ☐ B. 36
- ☐ C. 54
- ☐ D. 72

7. What fraction of the whole figure below is shaded?



Answer:



of the whole figure is shaded.

Please do not write in the margin.



8. (a) Change $2\frac{1}{7}$ into an improper fraction.

Answer:

- (b) Change $\frac{59}{6}$ into a mixed number.

Answer:

9. Which of the following fractions is the smallest?

(Circle the answer)

$$\frac{3}{16} \quad , \quad \frac{9}{32} \quad , \quad \frac{3}{32}$$

10. Change 0.32 into a fraction and reduce it to the simplest form.

Answer:

請把電腦條碼貼在方格內
Please stick the barcode label in the box



Please do not write in the margin.

11. In the number 0.79, what is the value represented by the digit '7'?

- ☐ A. 7
- ☐ B. $\frac{7}{10}$
- ☐ C. $\frac{7}{100}$
- ☐ D. 70

12. $25 \div 3 \times 12 =$ _____

13. $9 - 4\frac{2}{3} + 3\frac{2}{5} =$

14. $\frac{1}{8} \times 2\frac{1}{2} \times 1\frac{3}{5} =$

15. $3.06 - 1.85 + 0.8 =$ _____

16. $2.04 \div 1.5 =$ _____

Please do not write in the margin.

Please do not write in the margin.

17. Father bought a cake. John ate $\frac{1}{4}$ of the whole cake. Then Mary ate $\frac{1}{2}$ of the remaining part. What fraction of the whole cake did Mary eat?

(Show your working)

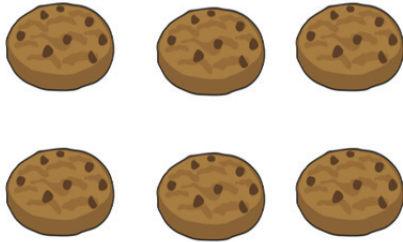
Please do not write in the margin.

請把電腦條碼貼在方格內
Please stick the barcode label in the box



18.

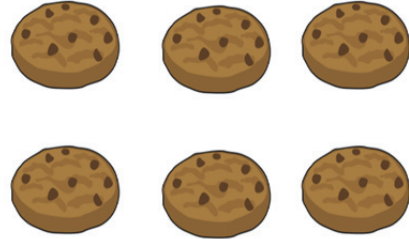
Tasty Bakery



Cookies

\$46.50 for 6 pieces

Yummy Bakery



Cookies

\$7.50 each

Wendy buys 6 pieces of cookies. If she buys them
at Yummy Bakery, she can save \$ _____ .

19. (a) Change 0.04% into a decimal.

Answer: _____

(b) Change 1.65 into a percentage.

Answer: _____ %

Please do not write in the margin.

Please do not write in the margin.

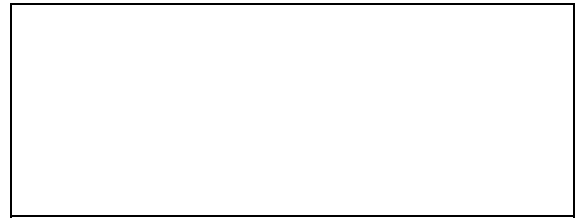
20. The original price of a mobile phone is \$3 500. William buys a mobile phone at 80% of its original price.

It is \$ _____ cheaper than the original price.

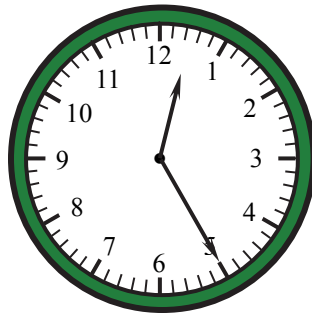
21. A pair of socks costs \$9.70. Stella has \$90.50. Which of the following expressions is most suitable for estimating the number of pairs of socks she can buy at most?

- ☐ A. $90 \div 10$
- ☐ B. $90 \div 9$
- ☐ C. $100 \div 10$
- ☐ D. $100 \div 9$

請把電腦條碼貼在方格內
Please stick the barcode label in the box



22. 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.

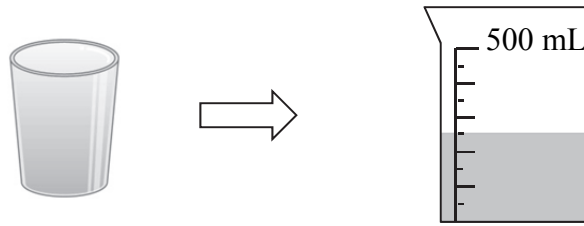
In '24-hour time', the ferry departed
at _____ : _____ .

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

Please do not write in the margin.

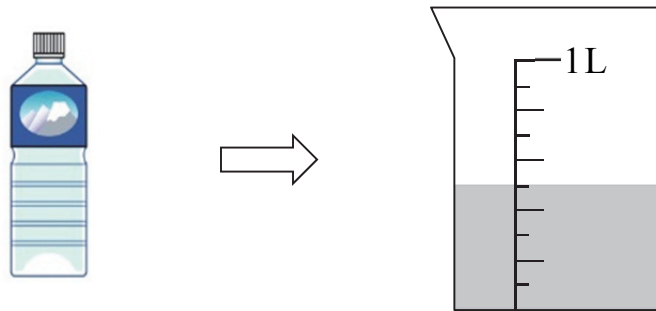
Please do not write in the margin.

23. (a) Fill up a glass with water. Then pour all the water in the glass into a beaker.



The capacity of the glass is _____ mL.

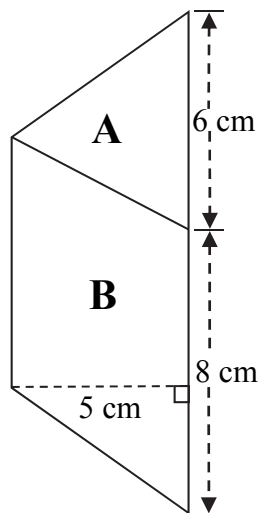
- (b) Fill up a bottle with water. Then pour all the water in the bottle into a beaker.



The capacity of the bottle is _____ L.

- (c) The capacity of the glass is
* larger than / equal to / smaller than
the capacity of the bottle.
(*Circle the answer)

24.



The trapezium above is made up of triangle **A** and parallelogram **B**.

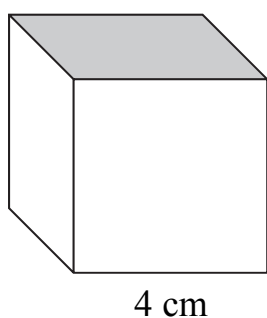
- (a) The area of **A** is _____ cm^2 .
- (b) The area of **B** is _____ cm^2 .

25. A piece of copper wire is 100 cm long. How many copper rings of diameter 10 cm can be made at most?

Answer: _____ copper rings can be made at most.

(Give the answer as a whole number)

26.



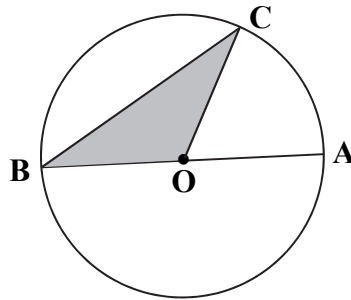
The volume of the cube above is

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

27. 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.

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



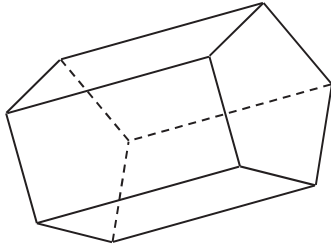
(a) The length of straight line **AB** is equal to the
* radius / diameter / circumference of the circle.
(*Circle the answer)

(b) The shaded part is
* an equilateral / a right-angled / an isosceles
triangle.
(*Circle the answer)

Please do not write in the margin.

Please do not write in the margin.

29.



The 3-D shape above is a

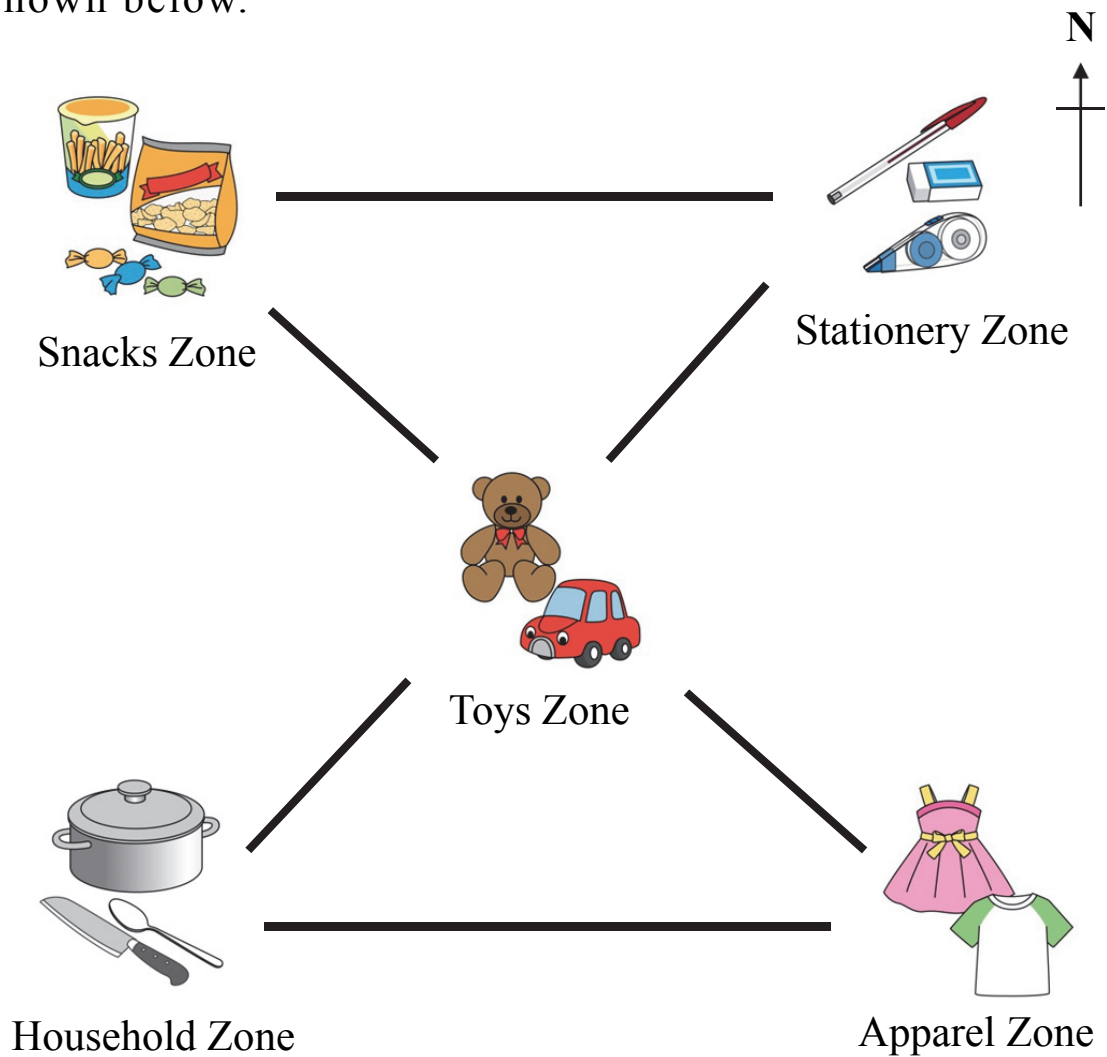
- ☐ A. pentagon.
- ☐ B. rectangle.
- ☐ C. pyramid.
- ☐ D. prism.

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. $(50 - y) \times 5$

Please do not write in the margin.

31. 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.

32. $42 = x + 16$

$x =$

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)

Please do not write in the margin.

34. The following table shows the number of stamps of different themes collected by Wendy.

Theme	Character	Festival	Animal	Scenery
Number of stamps	60	30	20	10

According to the information in the table above, complete the pictogram below and give it a title.

(Title)

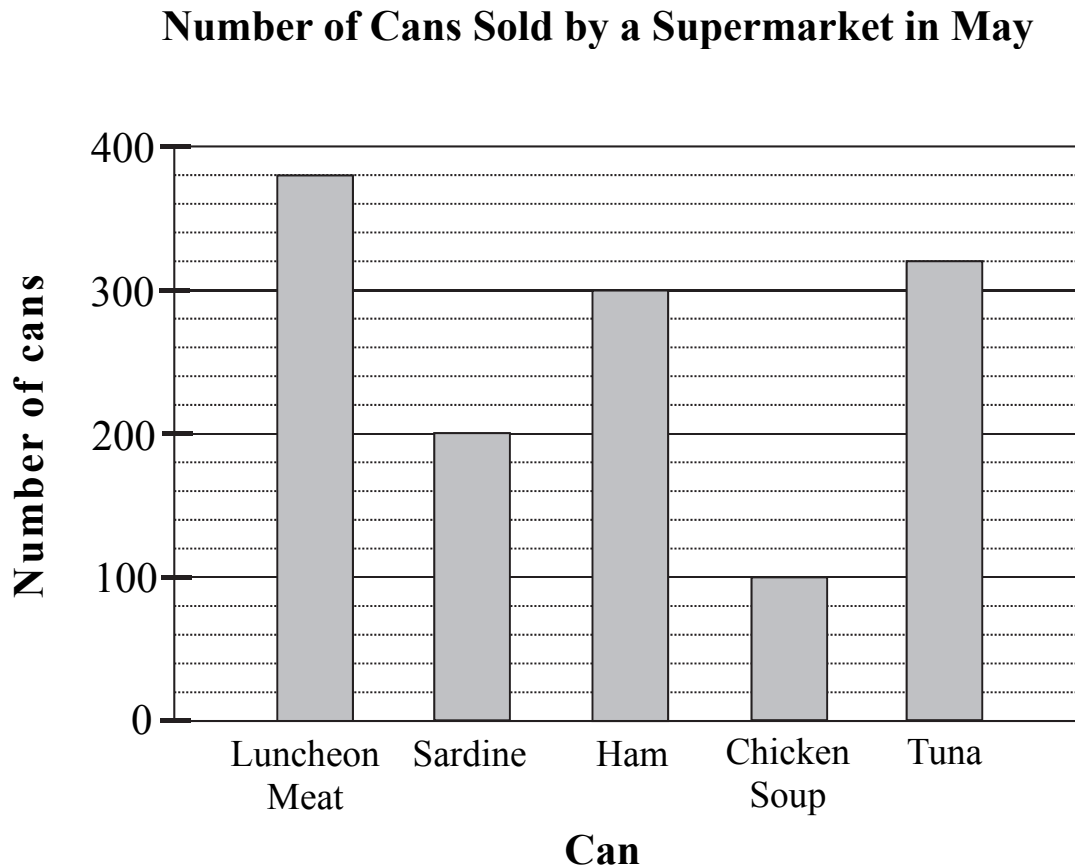
Each **S** stands for 10 stamps

Character							
Festival	S	S	S				
Animal							
Scenery							

Please do not write in the margin.

Please do not write in the margin.

35. The following bar chart shows the number of cans sold by a supermarket in May.



- (a) The quantity of _____ sold was the largest.

_____ cans were sold.

- (b) What fraction of the number of cans of ham sold was the number of cans of sardine sold?

Answer: The number of cans of sardine sold was



of that of ham sold.

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 —

Please do not write in the margin.

