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Please stick the barcode label in the box

Education Bureau
Territory-wide System Assessment 2021
Primary 6
Mathematics

CANCELLED

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					Class 班別			Class No. 班號		
	P					6				

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

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1. In the number 29 805, the value of the digit '8' is _____ .
(Give the answer in Arabic numerals)

2. Which of the following numbers is a factor of 26?

○ A. 4
○ B. 13
○ C. 18
○ D. 52

3. Which of the following pairs of numbers are common multiples of 6 and 15?

○ A. 1, 3
○ B. 6, 30
○ C. 15, 60
○ D. 30, 90

4. Which of the following numbers is the Highest Common Factor (H.C.F.) of 36 and 54?

○ A. 1
○ B. 9
○ C. 18
○ D. 108

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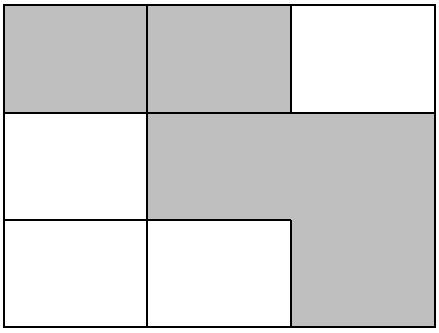
5. What fraction of the whole figure below is shaded?



Answer: ☐ of the whole figure is shaded.

6. (a) Change $6\frac{3}{4}$ into an improper fraction.

Answer: ☐

(b) Fill in the box with a correct number.

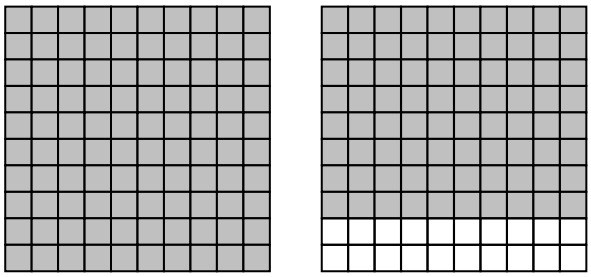
$$\frac{8}{15} = \frac{\square}{90}$$

7. Which of the following fractions is the largest?

(Circle the answer)

$\frac{9}{14}$, $\frac{5}{7}$, $\frac{3}{4}$

8.



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.

- ○ A. 180
- ○ B. 1.8
- ○ C. 1.08
- ○ D. $1\frac{80}{100}$

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9. Change 3.4 into a fraction and reduce it to the simplest form.

Answer: ☐

10. (a) Change $\frac{3}{25}$ into a percentage.

Answer: _____ %

(b) Change 105% into a decimal.

Answer: _____

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11. $500 - 428 \div 4 =$

- ○ A. 18
- ○ B. 107
- ○ C. 393
- ○ D. 483

12. $3\frac{1}{4} - 1\frac{5}{6} =$ ☐

13. $3\frac{5}{9} \div 2\frac{2}{3} =$ ☐

14. $2.48 + 3.9 - 1.75 =$ _____

15. $0.4 \times 8 \times 1.5 =$ _____

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16. There was $\frac{9}{10}$ L of water in Terry's bottle originally. After drinking $\frac{3}{4}$ L in P.E. lesson, Terry refilled the bottle with $\frac{1}{5}$ L. Now there is ☐ L of water in the bottle.

17. There were 24 biscuits on a plate. Maggie ate $\frac{3}{8}$ of them. Joe ate $\frac{1}{6}$ of them. Altogether they ate _____ biscuits.

18. 8 balloons weigh 14 grams in total. Each balloon weighs _____ gram(s) on average.
(Give the answer in decimals)

Go on to the next page

19. Each piece of cake costs 10.8 dollars. Mr Chan pays with a 100-dollar note for 4 pieces of cake. How much change does he get?
(Show your working)

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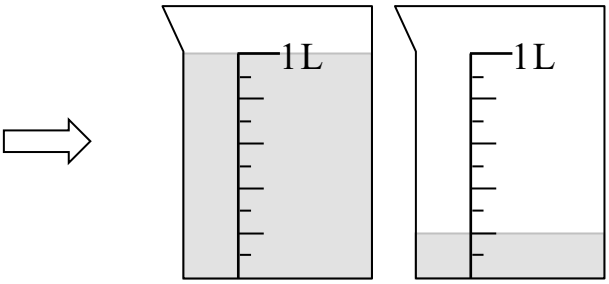
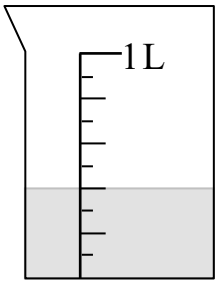
20. (a) Fill up a pot with water. Then pour all the water in the pot into two measuring cups.



The capacity of the pot is _____ L.

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



The capacity of the bowl is _____ mL.

(c) The capacity of is

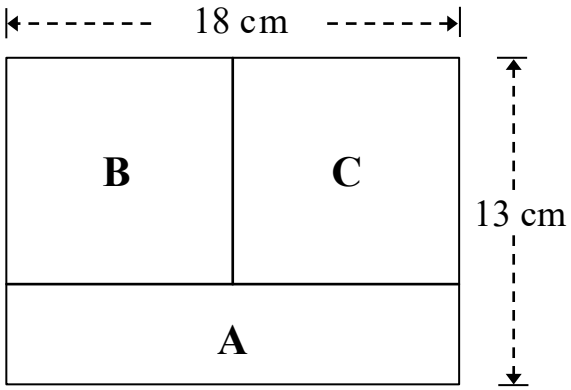
_____ time(s) that of .

21. Fill in the following blanks with suitable units.

(a) The total length of the Tsing Ma Bridge is about 2.16 _____ .

(b) A bowl of rice weighs about 200 _____ .

22.



The figure above is made up of rectangle **A**, squares **B** and **C**.

(a) The perimeter of square **B** is _____ cm.

(b) The perimeter of rectangle **A** is _____ cm.

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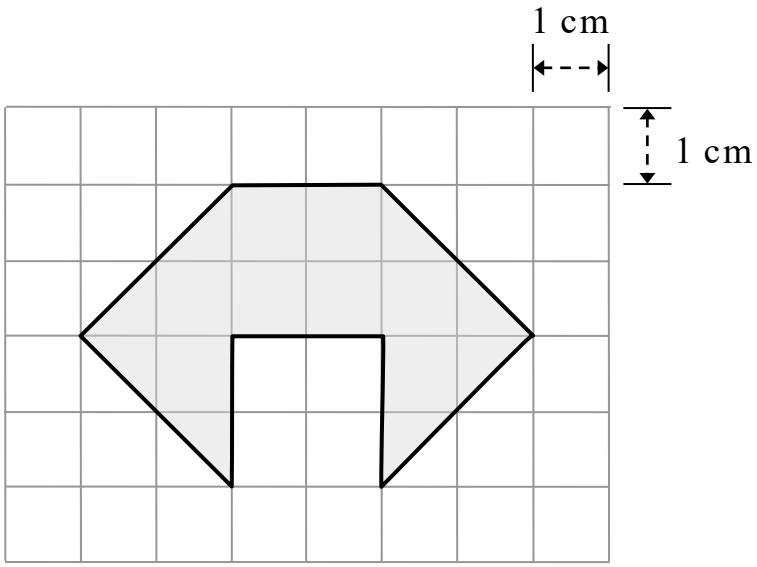
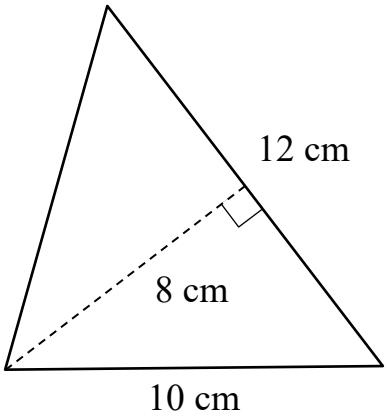
23. In the following diagram, the side of each square is 1 cm.



The area of the shaded part is _____ cm^2.

24.



What is the area of the triangle above?

- ○ A. 40 cm^2
- ○ B. 48 cm^2
- ○ C. 60 cm^2
- ○ D. 96 cm^2

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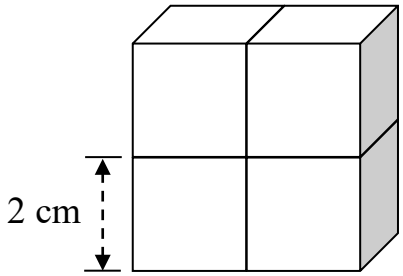
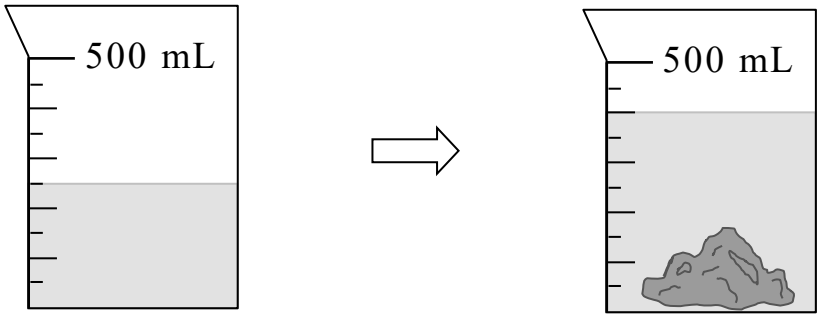
25. 

The cuboid above is made up of four cubes. The side of each cube is 2 cm. The volume of the cuboid is

_____ cm^3.

26. 

The volume of is _____ cm^3.

27. The length of the railway between City X and City Y is 380 km. A train departed from City X at 07:20 and arrived at City Y at 09:20. The average speed of the train was _____ km/h.

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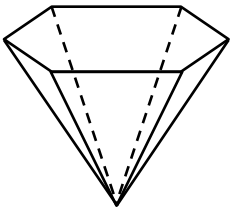
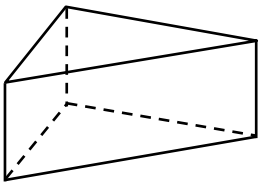
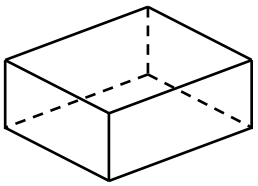
28. Which of the following 3-D shapes has 6 vertices and 10 edges?



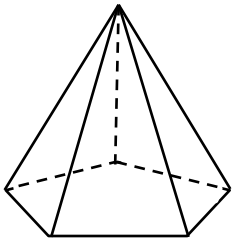
○ A.



○ B.

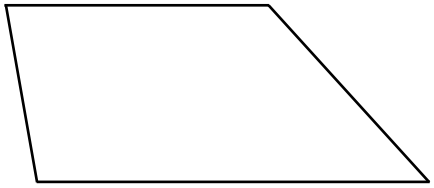


○ C.



○ D.

29.



The figure above is a

* parallelogram / rhombus / trapezium .

(*Circle the answer)

It has _____ pair(s) of opposite sides parallel.

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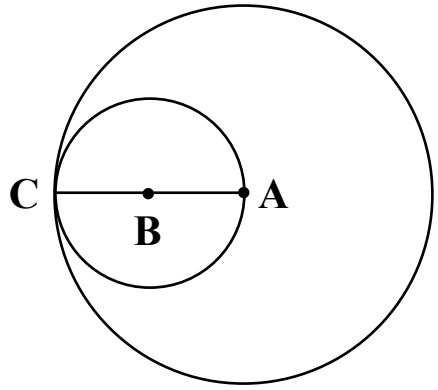
30. A teacher draws two circles. Point **A** is the centre of the big circle. Point **B** is the centre of the small circle.



(a) The line **AB** is the

* radius / diameter / circumference

of the small circle.

(*Circle the answer)

(b) The diameter of the big circle is _____ time(s) the length of **AC**.

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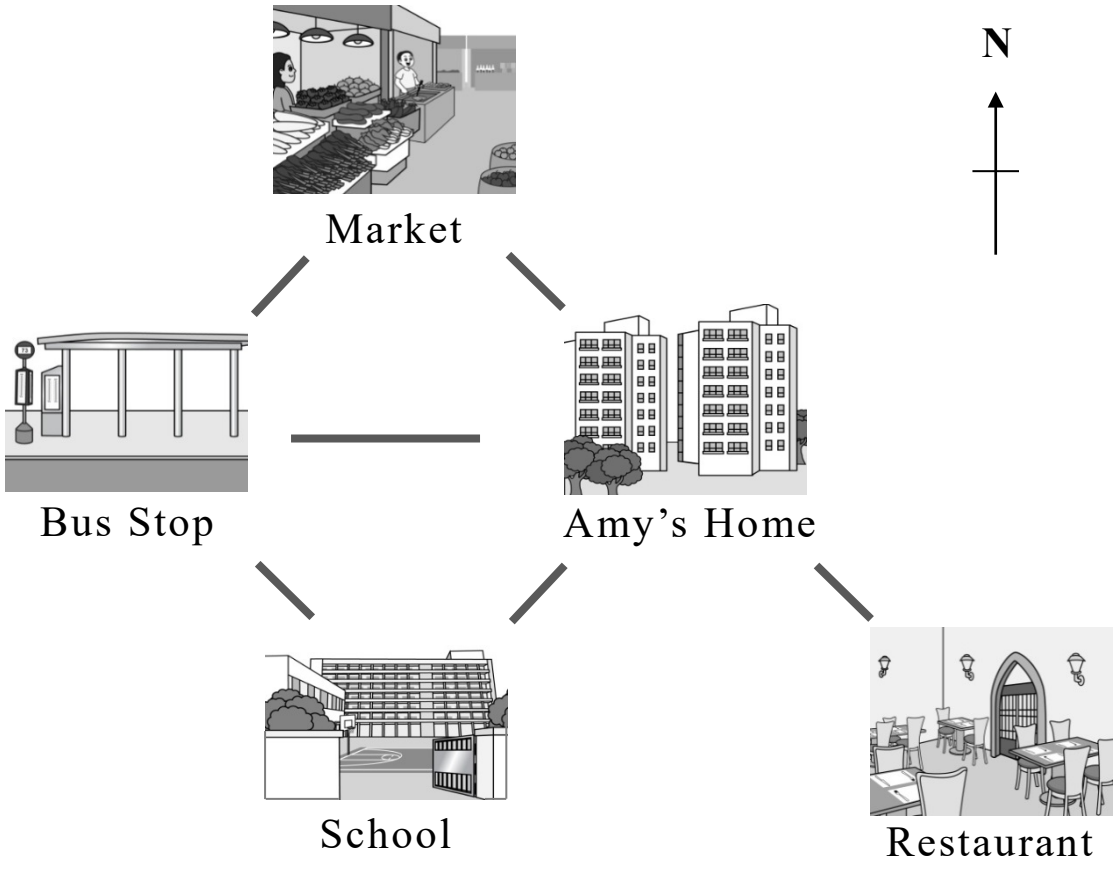
31. The map below shows the facilities near Amy's home.



(a) Amy goes home from Bus Stop. She should walk towards _____ .
(direction)

(b) Starting from home, Amy goes south-west to reach _____ .

(c) Market is to the _____ of Amy's home.
(direction)

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32. Mrs Chan has a pack of flour. She uses y grams every day. After two weeks, there are 60 grams of flour left. How many grams of flour are there in the pack originally?

○ A. $14y + 60$

○ B. $14y - 60$

○ C. $y + 60$

○ D. $(y + 60) \times 14$

33. $\frac{3k}{5} = 6$

$k =$ ☐

34. Find the average of the five numbers below.

32.6 , 23.1 , 10 , 15.9 , 40.4

Answer: The average is _____ .

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35. Peter bought a bottle of juice. He drank $\frac{1}{4}$ of the whole bottle in the morning and 250 mL in the afternoon. He drank 450 mL in total. Find the original amount of juice in this bottle by ***the method of solving an equation.***

(Show your working)

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36. The following pictogram shows the number of passengers taking the ferry last week.

Number of Passengers
Taking the Ferry Last Week

Each ☺ stands for 1 000 passengers

Sunday	☺ ☺ ☺
Monday	☺ ☺ ☺ ☺ ☺
Tuesday	☺ ☺ ☺ ☺
Wednesday	☺ ☺ ☺ ☺
Thursday	☺ ☺ ☺
Friday	☺ ☺ ☺ ☺ ☺
Saturday	☺ ☺

(a) The number of passengers on _____ (day of the week) was the smallest.

There were _____ passengers.

(b) The total number of passengers last week was _____ .

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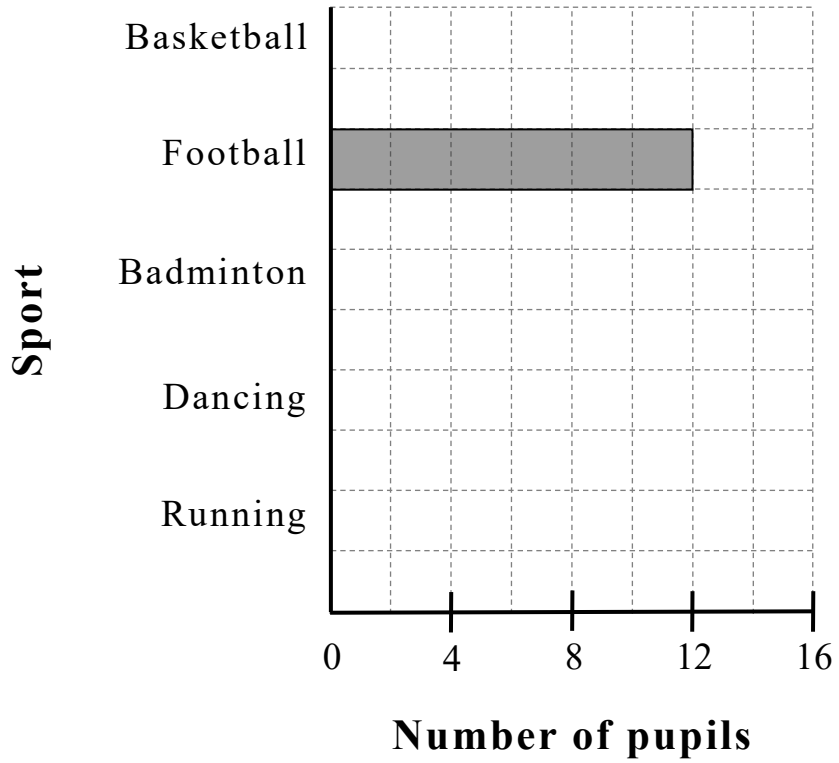
37. The table below shows the favourite sports of Class 6C pupils.

Sport	Basketball	Football	Badminton	Dancing	Running
Number of pupils	8	12	6	2	4

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

(Title)



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