* 6 M E 3 *

6	M	E	3

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Please stick the barcode label in the box

Education Bureau
Territory-wide System Assessment 2022◈
Primary 6
Mathematics

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

◈ 2022 年小六全港性系統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。
School participation in the 2022 P6 TSA is on a voluntary basis. As a result, this is a TSA in which not all P6 students will participate.

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1. Which of the following numbers has the digit '6' in its hundreds place?

   - ○ A. 11.649
   - ○ B. 25.361
   - ○ C. 48 670
   - ○ D. 60 045

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

   - ○ A. 64
   - ○ B. 56
   - ○ C. 14
   - ○ D. 6

3. List the first three common multiples of 4 and 6.

   Answer: _____, _____, _____

4. The Highest Common Factor (H.C.F.) of 24 and 40 is _____ .

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

$\frac{8}{9}$, $\frac{1}{4}$, $1\frac{6}{7}$

6. (a) Change $20\frac{3}{5}$ into an improper fraction.

Answer: ☐

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

$$\frac{14}{33} = \frac{42}{\square}$$

7. Change $1\frac{5}{8}$ into a decimal correct to two decimal places.

Answer: _____

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Please do not write in the margin.

8. In the number 3.17, what is the value of the digit '1'?

- ○ A. $\frac{1}{100}$
- ○ B. $\frac{1}{10}$
- ○ C. 1
- ○ D. 10

9. $(60 - 32) \times 105 =$ _____

10. $3\frac{2}{9} - \frac{7}{9} + 1\frac{5}{9} =$ ☐

11. $1\frac{3}{4} \div 2\frac{5}{8} =$ ☐

12. $30.6 \div (2 + 1.4) =$ _____

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13. There are 70 kilograms of vegetables in the supermarket. $\frac{1}{5}$ of them are tomatoes and $\frac{2}{7}$ of them are onions.

How many kilograms of tomatoes and onions are there altogether?

(Show your working)

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Please do not write in the margin.

14. Mr Ho puts $4\frac{1}{2}$ kilograms of salt into 18 bottles equally.

There is/are ☐ kilogram(s) of salt in each bottle.

15. Cindy spends 1.5 hours on watching TV and 0.75 hour on reading every day. In total she spends _____ hours on watching TV and reading in one week.

16. A collection point recycled 1 840 kilograms of plastic this month. 62.5% of the plastic recycled is bottles. Which of the following expressions is most suitable for estimating the weight (in kilograms) of bottles recycled?

- ○ A. $2\,000 \times 60\%$
- ○ B. $2\,000 \times 70\%$
- ○ C. $1\,000 \times 60\%$
- ○ D. $1\,000 \times 70\%$

17. The original price of a dress is 160 dollars. Heidi buys the dress at 30% off. She should pay _____ dollars.

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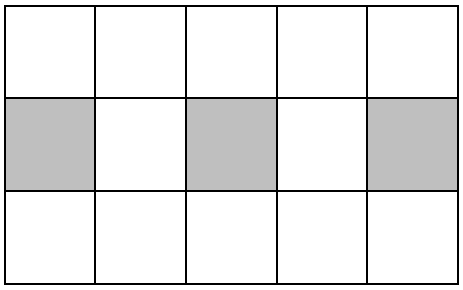
18. What percentage of the whole figure below is shaded?



Answer: _____ % of the whole figure is shaded.

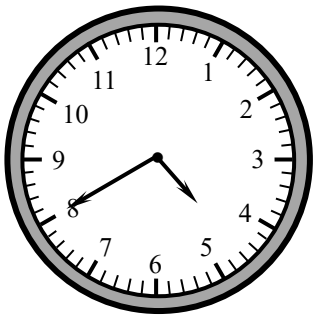
19. (a) Change 108% into a fraction and reduce it to the simplest form.

Answer:

(b) Change 0.4 into a percentage.

Answer: _____ %

20. Ricky met with Jenny at the cinema to watch a movie on Saturday.



(a) The clock above showed the time Ricky arrived at the cinema.

The time was _____ : _____ p.m.

(b) Jenny arrived at the cinema at 5:15 p.m.

She arrived at the cinema _____ minute(s)

* earlier / later than Ricky.

(*Circle the answer)

(c) Below are the show times of the movie.

	First session	Second session	Third session
Starting time	12:30 p.m.	3:00 p.m.	5:30 p.m.

Ricky and Jenny watched the movie in the third session. In '24-hour time', its starting time was

_____ : _____ .

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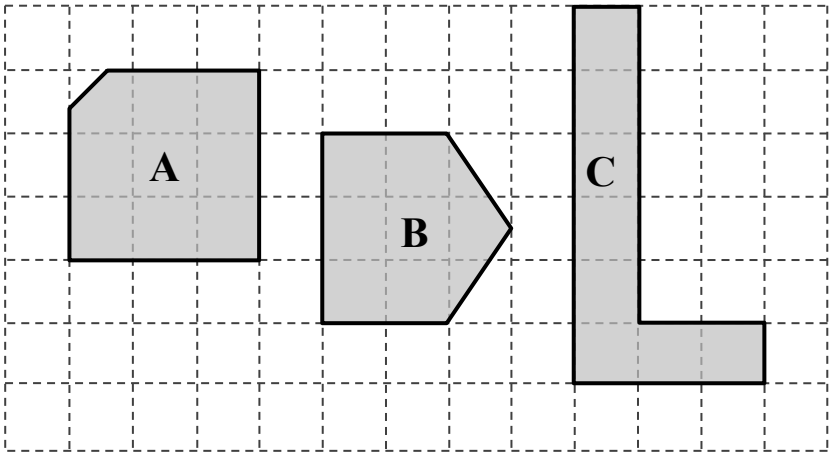
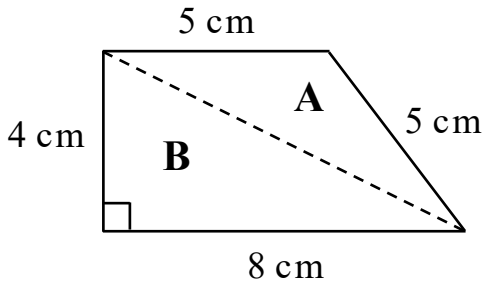
21.



Compare the areas of the 2-D shapes **A**, **B** and **C** above. Arrange them from the largest to the smallest. Write all the letters for the answers.

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

22.



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

(a) **A** is

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

(*Circle the answer)

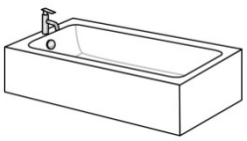
(b) The area of the trapezium is _____ cm^2.

23. Fill in the following blanks with suitable units.

(a) The height of a classroom is about

2.8 _____ .

(b) The capacity of a bathtub is about



300 _____ .

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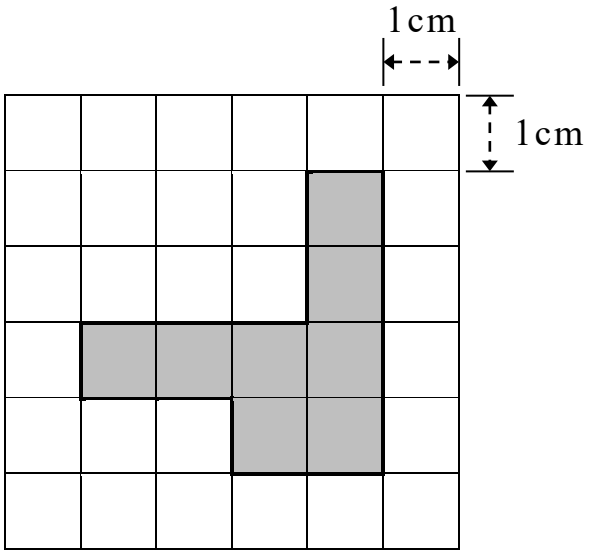
24. In the following diagram, the side of each square is 1 cm.



The perimeter of the shaded part is _____ cm.

25. 

An iron wire is made by cutting an iron coil of diameter 14 cm (as shown in the diagram above). The length of the iron wire is _____ cm.

(Take π as $\frac{22}{7}$)

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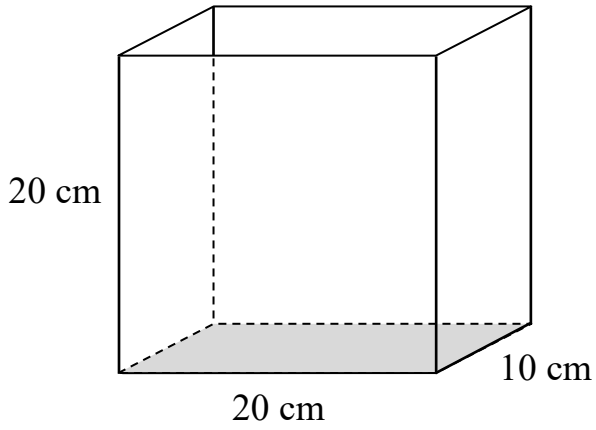
Please do not write in the margin.

26. The average cycling speed of an athlete is about

- ○ A. 300 s/m.
- ○ B. 300 m/s.
- ○ C. 30 h/km.
- ○ D. 30 km/h.

27.



What is the capacity of the rectangular container above?

- ○ A. 200 mL
- ○ B. 4 L
- ○ C. 40 L
- ○ D. 4 000 L

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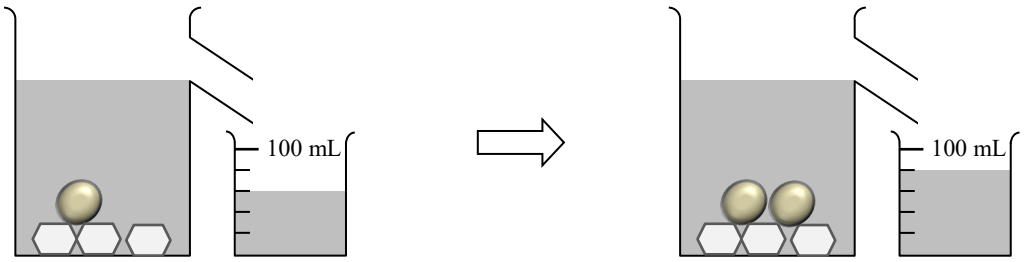
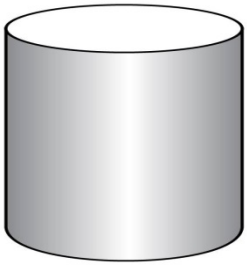
28.



The volume of each ● is _____ cm^3.

29.



The figure above is a * cylinder / cone / sphere .

(*Circle the answer)

It has _____ faces.

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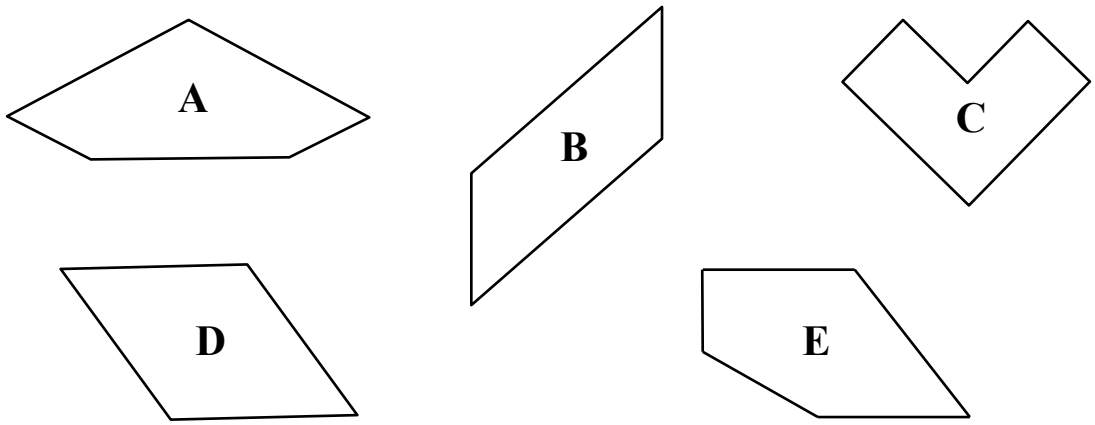
30. Study the 2-D shapes below. Write all the letters for the answers.



(a) Pentagon: _____

(b) Rhombus: _____

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31. Which of the following 2-D shapes has only one pair of opposite sides parallel?

- ○ A. Parallelogram
- ○ B. Rectangle
- ○ C. Rhombus
- ○ D. Trapezium

32. Which of the following is an equation?

- ○ A. $10 + 19 = 5 + 6p$
- ○ B. $\frac{9p}{14}$
- ○ C. $(15 - 2) \times 3 = 39$
- ○ D. p

33. $\frac{B}{3} + 7.5 = 8.6$

$B =$ ☐

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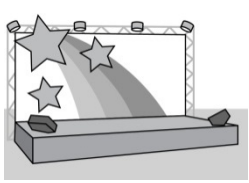
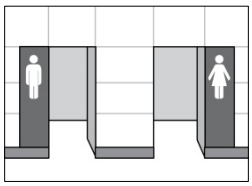
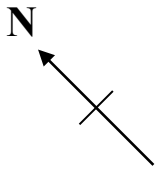
34. The map of a fun fair is shown below.

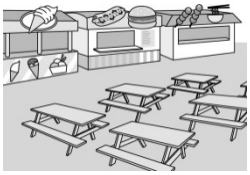


Stage

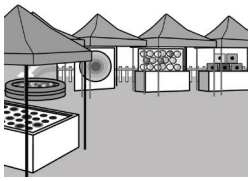


Toilet



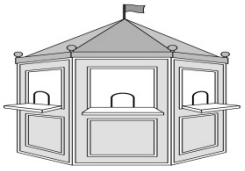


Food Court



Games Booth

Gift Shop



Box Office

(a) To the south of Food Court is _____ .

(b) Starting from Food Court, Henry goes

_____ to reach Games Booth. Then he
(direction)

turns _____ to reach Stage.
(direction)

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35. A number times 7 and then minus 6. The result is 8. Find the number by ***the method of solving an equation.***
(Show your working)

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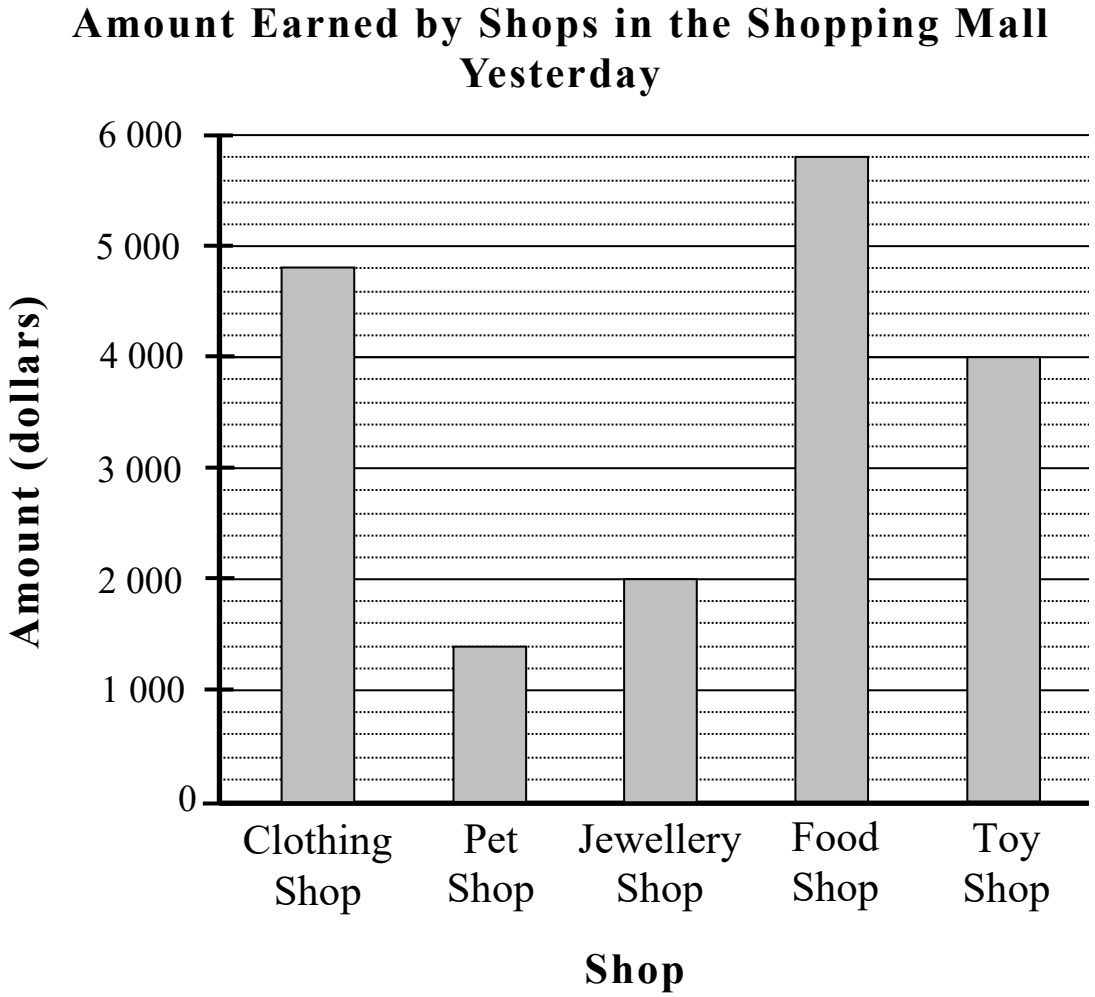
36. The following bar chart shows the amount earned by shops in the shopping mall yesterday.



(a) The amount earned by the _____ Shop was the most. The amount was _____ dollars.

(b) The total amount that the shops earned was _____ dollars yesterday.

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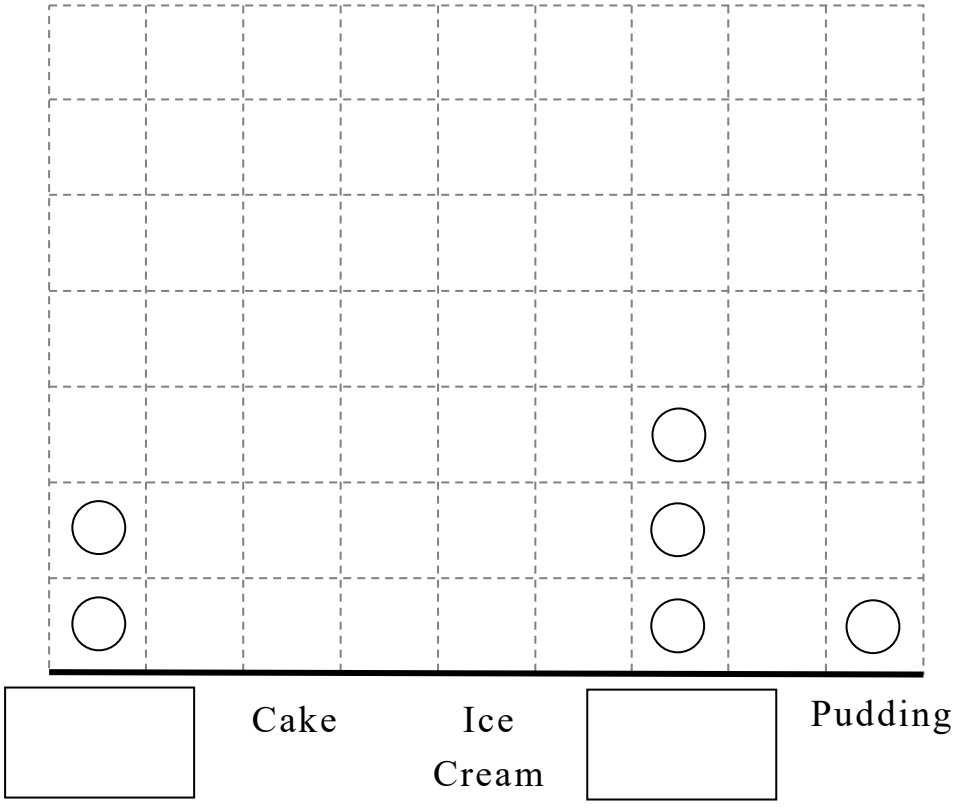
37. Ms Hui did a survey on the favourite desserts of Primary Six pupils. The results are as follows:

Dessert	Cookie	Cake	Ice Cream	Jelly	Pudding
Number of pupils	20	40	50	30	10

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

(Title)

Each ◯ stands for 10 pupils



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