6 M E 3


# Education Bureau Territory－wide System Assessment 2015 Primary 6 Mathematics 

## Instructions：

1．Stick barcode labels on pages $1,3,5,7$ and 9 in the spaces provided．
2．There are 40 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：

（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．

Class班別

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.
3210 , 31002 , 10023
Answer: $\qquad$ ,
(Largest)
(Smallest)
2. Which of the following groups of numbers are common factors of 22 and 33?
O A. 1, 2, 3B. 1,11C. $2,3,11$D. 66, 132
3. Which of the following pairs of numbers are common multiples of 16 and 24?
○ A. 1, 4
○ B. 2, 8
○ C. 48, 96

- D. 80, 120

4. Which of the following fractions has its value nearest to 1? (Circle the answer)
$\frac{4}{5}, \frac{3}{5}, 1 \frac{2}{5}$
$\square$

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


Answer：

of the whole figure is shaded．

## Please do not write in the margin．

6．Fill in the boxes with the correct numbers．
（a）


8. Which of the following fractions is the largest?
(Circle the answer)

$$
3 \frac{5}{8}, \frac{27}{8}, \frac{29}{7}
$$

9. In the number 0.2589 , which digit below stands for the largest value?
○ A. '2'
○ B. '5'
○ C. '8'
○ D. '9'
10. $50 \times(24+16)=$ $\qquad$


There are three large squares in the diagram above．Each large square stands for 1.

Use a decimal to represent the shaded part of the diagram．

Answer： $\qquad$
14.
$0.75+4.08-2.81=$ $\qquad$

15．Originally a tea set costs 309 dollars．A discount of $19 \%$ will be given if payment is made in cash．Which of the following expressions is most suitable for estimating the amount of cash paid for a tea set？

○ A． $300 \times 80 \%$
$\bigcirc$
B． $400 \times 80 \%$
$\bigcirc$
C． $300 \times 90 \%$
○
D． $400 \times 90 \%$

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

Answer: $\qquad$ \% of the whole figure is shaded.
17. The original amount of Heidi's stored value card was $\$ 150.00$. She bought 5 birthday cards with her stored value card. Each birthday card cost $\$ 22.50$. What was the remaining amount of her stored value card? (Show your working)
$\square$
$\square$
Please do not write in the margin．
18．（a）Change $\frac{3}{16}$ into a percentage．
Answer： $\qquad$ \％
（b）Change 155\％into a fraction and reduce it to the simplest form．

19．There are 80 vehicles in a car park． $15 \%$ of them are vans． The rest are private cars．How many private cars are there in the car park？（Show your working）

21.


Study the diagram above．The weight of one is equal to the weight of $\qquad$ Bi

22．Fill in the following blanks with suitable units．
（a） A carrot is about 20 $\qquad$ long．
（b）The weight of a dumbbell is 5 $\qquad$ ．

（c）The capacity of a teapot is about
1 $\qquad$ ．

23. Clara puts a circular wristband on a square tile.

(a) The perimeter of the square tile is cm.
(b) The length of the wristband is about __ times the side of the square tile. (Give your answer as a whole number)
24.


The solid shown above is made up of


The volume of each
 is $1 \mathrm{~m}^{3}$.

The volume of the solid is $\qquad$ .
(Give the answer with a unit)
(a) The volume of oneis $\qquad$ $\mathrm{cm}^{3}$.
(b) The volume of one
$\qquad$ $\mathrm{cm}^{3}$.
27. Jimmy cycles at an average speed of $15 \mathrm{~km} / \mathrm{h}$. He takes $\qquad$ minutes to cover a distance of 10 km .
Please do not write in the margin.
28. Study the 2-D shapes below. Write the letter(s) for the answer.

(a) Rectangle: $\qquad$
(b) Rhombus: $\qquad$
29.

The figure above is a prism.
It has $\qquad$ faces and $\qquad$ edges.

31.
Parallelogram: $\qquad$
Trapezium: $\qquad$
30. Study the following 2-D shapes. Write the letter(s) for the answer.

$\qquad$
.

The radius of a circle is 2 cm . What is its circumference? (Take $\pi$ as 3.14) (Show your working)
Please do not write in the margin.
32. The map of Cultural Zone is shown below.

(a) Gallery is to the $\qquad$ of Museum.
(direction)
(b) Concert Hall is to the south-west of $\qquad$ .
(c) Starting from Conference Centre, Jimmy goes to reach Opera House. Then he turns (direction)
$\qquad$
to reach Gallery.
(direction)
33. Which of the following stands for ' 10 minus $m$ is divided by 4 '?

O A. $\quad 10-m \div 4$
○ B. $m-10 \div 4$

○ C. $(10-m) \div 4$
O D. $(m-10) \div 4$
34. Which of the following are equations? Write all the letters for the answer.
A. $6 \times 8=12 \times 4$
B. $12+x=50$
C. $\frac{2 B}{5}=10$
D. $7 q$
E. $2 r+6$

Answer: $\qquad$
35. $4 k-5=21$

$$
k=\square
$$


37. A number is divided by 4. The result plus 8 is equal to 12 . Find the number by the method of solving an equation. (Show your working)

Please do not write in the margin.
38. The following pictogram records the number of readers at the public library last week.
Number of Readers at the Public Library Last Week
Each stands for 1000 readers
Each stands for 1000 readers
Monday Tuesday Wednesday Thursday Friday Saturday Sunday
(a) The public library had most readers on $\qquad$ . There were $\qquad$ readers. (day of the week)
(b) The total number of readers last week was $\qquad$ .
(c) The public library was closed on one day last week. That day was $\qquad$ .
(day of the week)
39. The table below shows the favourite interest groups of Class 6B pupils.

| Interest <br> Group | Calligraphy | Chess | Cookery | Dancing | Magic |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Number <br> of pupils | 2 | 8 | 6 | 10 | 14 |

Use a pencil to complete the following bar chart according to the information above. Add the title and scales.
40. The following bar chart shows the number of vehicles passing through City Tunnel last week.

Number of Vehicles Passing through City Tunnel Last Week

(a) Among different types of vehicles passing through

City Tunnel, the fewest was $\qquad$ .

There were $\qquad$ vehicles only.
(b) The total number of vehicles passing through City

Tunnel was $\qquad$ .
(c) The number of private cars passing through City Tunnel was $\qquad$ \% of that of buses.

- END OF PAPER -

