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:

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

3 210 , 31 002 , 10 023

Answer: _________ , _________ , _________

(Largest) (Smallest)

2. Which of the following groups of numbers are common factors of 22 and 33?

○ A. 1, 2, 3
○ B. 1, 11
○ C. 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)

\( \frac{4}{5} \), \( \frac{3}{5} \), \( \frac{12}{5} \)
5. What fraction of the whole figure below is shaded?

![Shaded Figure]

Answer: $\boxed{\phantom{0}}$ of the whole figure is shaded.

6. Fill in the boxes with the correct numbers.

(a) \[ \frac{9}{54} = \frac{\square}{\square} \]

(b) \[ \frac{8}{24} = \frac{\square}{144} \]

7. Change $3\frac{2}{7}$ into a decimal correct to two decimal places.

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

\[ \frac{5}{8}, \quad \frac{27}{8}, \quad \frac{29}{7} \]

9. In the number 0.2589, which digit below stands for the largest value?

- A. ‘2’
- B. ‘5’
- C. ‘8’
- D. ‘9’

10. \[ 50 \times (24 + 16) = \]

11. \[ 2\frac{4}{7} - 1\frac{6}{7} + 2\frac{1}{7} = \]

12. \[ \frac{2}{7} \div 3 \times 2\frac{5}{8} = \]
13. 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: __________

14. \[0.75 + 4.08 - 2.81 = \] __________

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. \(300 \times 80\%\)
- B. \(400 \times 80\%\)
- C. \(300 \times 90\%\)
- D. \(400 \times 90\%\)
16. What percentage of the whole figure below is shaded?

Answer: _________ % 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)
18. (a) Change $\frac{3}{16}$ into a percentage.  
Answer: $\underline{\hspace{2cm}}$ %  

(b) Change 155% into a fraction and reduce it to the simplest form.  
Answer: $\underline{\hspace{3cm}}$  

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)
20. The following is a calendar of February 2015.

<table>
<thead>
<tr>
<th>February</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunday</td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>8</td>
</tr>
<tr>
<td>15</td>
</tr>
<tr>
<td>22</td>
</tr>
</tbody>
</table>

(a) The 'Drama Night' is on the last Saturday of January 2015.

It is on the ________ of ____________.

(day) (month)

(b) 2015 is a * common year / leap year

because February has only ________ days.

(*Circle the answer)
21. Study the diagram above. The weight of one is equal to the weight of ________.

22. Fill in the following blanks with suitable units.

(a) A carrot is about 20 ________ long.

(b) The weight of a dumbbell is 5 ________.

(c) The capacity of a teapot is about 1 ________.
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 m³.

The volume of the solid is ____________ .
(Give the answer with a unit)
25. The side of the cubic container above is 10 cm. The water in the measuring cup can fill up _______ cubic container(s) at most.

26. (a) The volume of one is _______ cm³.

(b) The volume of one is _______ cm³.

27. Jimmy cycles at an average speed of 15 km/h. He takes _______ minutes to cover a distance of 10 km.
28. Study the 2-D shapes below. Write the letter(s) for the answer.

![Shapes A, B, C, D, E]

(a) Rectangle: ____________
(b) Rhombus: ____________

29. The figure above is a prism.

It has ____________ faces and ____________ edges.
30. Study the following 2-D shapes. Write the letter(s) for the answer.

Parallelogram: __________
Trapezium: __________

31. The radius of a circle is 2 cm.
What is its circumference?  (Take \( \pi \) as 3.14)
(Show your working)
32. The map of Cultural Zone is shown below.

(a) Gallery is to the _____________ of Museum. (direction)

(b) Concert Hall is to the south-west of ___________.

(c) Starting from Conference Centre, Jimmy goes ___________ to reach Opera House. Then he turns (direction)

___________ to reach Gallery. (direction)
33. Which of the following stands for ‘10 minus m is divided by 4 ’?

- A. \(10 - m \div 4\)
- B. \(m - 10 \div 4\)
- C. \((10 - m) \div 4\)
- 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. \(\frac{2B}{5} = 10\)
D. \(7q\)
E. \(2r + 6\)

Answer: ____________________
35. \[ 4k - 5 = 21 \]

\[ k = \]

36. \[ 6.5 + 7y = 8.6 \]

\[ y = \]

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)
The following pictogram records the number of readers at the public library last week.

**Number of Readers at the Public Library Last Week**

Each \( \bigcirc \) stands for 1,000 readers

<table>
<thead>
<tr>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
<th>Sunday</th>
</tr>
</thead>
</table>

(a) The public library had most readers
    on \[ \underline{\text{________}} \]. There were \[ \underline{_____} \] readers.
    \( \text{ (day of the week) } \)

(b) The total number of readers last week
    was \[ \underline{_____} \].

(c) The public library was closed on one day last week.
    That day was \[ \underline{\text{________}} \].
    \( \text{ (day of the week) } \)
The table below shows the favourite interest groups of Class 6B pupils.

<table>
<thead>
<tr>
<th>Interest Group</th>
<th>Calligraphy</th>
<th>Chess</th>
<th>Cookery</th>
<th>Dancing</th>
<th>Magic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of pupils</td>
<td>2</td>
<td>8</td>
<td>6</td>
<td>10</td>
<td>14</td>
</tr>
</tbody>
</table>

Use a pencil to complete the following bar chart according to the information above. Add the title and scales.

(Title)

Number of pupils

Interest Group

Calligraphy Chess Cookery Dancing Magic
40. The following bar chart shows the number of vehicles passing through City Tunnel last week.

<table>
<thead>
<tr>
<th>Type of vehicles</th>
<th>Number of vehicles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Private Car</td>
<td>2000</td>
</tr>
<tr>
<td>Van</td>
<td>5000</td>
</tr>
<tr>
<td>Bus</td>
<td>3000</td>
</tr>
<tr>
<td>Lorry</td>
<td>4000</td>
</tr>
<tr>
<td>Taxi</td>
<td>1000</td>
</tr>
<tr>
<td>Motorcycle</td>
<td>600</td>
</tr>
</tbody>
</table>

(a) Among different types of vehicles passing through City Tunnel, the fewest was ____________ .
There were ____________ vehicles only.

(b) The total number of vehicles passing through City Tunnel was ____________ .

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

— END OF PAPER —