Education Bureau
Territory-wide System Assessment 2011
Primary 3
Mathematics

Instructions:

1. Stick barcode labels on pages 1, 3, 5, 7 and 9 in the spaces provided.
2. There are 39 questions in this test. Answer all questions.
3. Time allowed is 40 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

Class

Class No.

Write one capital letter in this box
此格只許填寫一個大楷英文字母
1. In the number 36 002, the digit ‘6’ is in the
   O A. tens place.
   O B. hundreds place.
   O C. thousands place.
   O D. ten thousands place.

2. Mr Cheung has done a survey on the sale of three types of bags.

<table>
<thead>
<tr>
<th>Types of bags</th>
<th></th>
<th></th>
</tr>
</thead>
</table>
   | Number of     | 15253 | 12597 | 15529 
   | bags sold     |   |   |   |

Arrange the number of bags sold from the largest to the smallest.

Answer: ____________________, ____________________, ____________________
        (Largest)                  (Smallest)

3. Write the number ‘71020’ in words.

   Answer: ____________________

4. \[483 + 148 = ________\]

5. \[559 - 168 = ________\]
6. Fill in the boxes with the correct numbers.

\[
\begin{array}{c}
9 \\
1 \\
4 \\
\hline
\end{array}
\begin{array}{c}
- \\
\hline
3 \\
7 \\
2 \\
\end{array}
\]

7. \(648 \times 3 = \) __________

8. \(806 \div 4 = \) __________

9. \(384 \div 6 = \) __________

10. \(5 \times 83 - 219 = \) __________

11. Mary is joining a charity walk. She can raise 123 dollars for every 1 km she walks. Mary walks for 8 km and raises a total of __________ dollars.
12. Each display board can hold 8 pictures. Mr Wong wants to put 353 pictures on the boards. How many boards does he need at least?
Answer: At least ________ boards are needed.

13. Alvin has 383 dollars and Tom has 186 dollars. They want to buy a video game together. How much more money do they need?
(Show your working)
14. The shopkeeper packs 8 oranges into one bag. There are 534 oranges. How many bags can be packed at most? How many oranges are left? (Show your working)

15. Lamma Island
One Day Tour

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Adult</td>
<td>$125</td>
</tr>
<tr>
<td>Child</td>
<td>$80</td>
</tr>
</tbody>
</table>

Mr Ho and his family join the Lamma Island one day tour. The total cost for 3 adults and 1 child is $________.
16. Mother has to pay 27 dollars and 90 cents for 3 kg of cabbage.

(a) The cost of 1 kg of cabbage is _________ dollar(s) and _________ cent(s).

(b) She pays ______$. The change is _________ dollar(s) and _________ cent(s).

17. Kevin and John have a total of 15 toy cars. Kevin has \( \frac{2}{5} \) of all the toy cars.

(a) Kevin has _________ toy cars.

(b) John has _________ of all the toy cars.
18. Which of the following figures has $\frac{1}{5}$ of the whole shaded?

- A.
- B.
- C.
- D.

19. Eva eats $\frac{2}{12}$ of the whole bag of sweets. Helen eats $\frac{3}{12}$ of the whole bag and Danny eats $\frac{3}{6}$ of the whole bag.

*Eva / Helen / Danny eats the least. (*Circle the answer)
20. Mother buys a mixer in a shop.

(a) The price of the mixer is __________ dollars and __________ cents.

(b) Mother buys a mixer and pays with two __________. How much change should she get? Circle the change.

21. The length of the bus model is __________ cm.
22. Write down a suitable measuring unit for each of the following.

(a) The length of a correction pen is about 100 _______.
(b) The distance between Hong Kong and Shanghai is about 1230 _______.
(c) A refrigerator weighs about 60 _______.

23. Use the December calendar below to answer the following questions.

<table>
<thead>
<tr>
<th>December</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sun</td>
</tr>
<tr>
<td>------</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td>12</td>
</tr>
<tr>
<td>19</td>
</tr>
<tr>
<td>26</td>
</tr>
</tbody>
</table>

(a) Today is the 8th of December. The school examination will start next Tuesday. The examination will start on the _____ of ________.  
(month)

(b) After the Christmas holidays, Mary will go back to school again on the first Monday of January. The date is the _____ of ________.  
(month)
24. Isaac practised running on a Sunday morning. The following is the starting and ending time of the practice.

<table>
<thead>
<tr>
<th>Starting time</th>
<th>Ending time</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00</td>
<td>11:15</td>
</tr>
</tbody>
</table>

(a) He started to practise at ________ minutes past ________ in the morning.

(b) He took ________ hour(s) and ________ minute(s) to practise running.

25. The timetable below shows the activities of the Day Camp in the afternoon.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Starting time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lunch</td>
<td>12:30</td>
</tr>
<tr>
<td>Photo taking</td>
<td>13:30</td>
</tr>
<tr>
<td>Basketball match</td>
<td>14:00</td>
</tr>
<tr>
<td>Football match</td>
<td>16:30</td>
</tr>
<tr>
<td>Check-out</td>
<td>18:00</td>
</tr>
</tbody>
</table>

(a) The football match begins at ________ past ________ in the *morning / afternoon. (*Circle the answer)

(b) David finishes his lunch at 13:05. It is ________ minute(s) before the basketball match begins.
26. Which of the following is the lightest?

- A. a pair of shoes
- B. a dictionary
- C. a shuttlecock
- D. a pack of rice

27. (a) Weighs ________ kg.

(b) Is *lighter/heavier than by ________ kg. (*Circle the answer)
28. and are filled up with water and then poured into two beakers respectively.

The capacity of * is larger.

(*Circle the answer)

The capacities of the two containers differ by _______ mL.
29. To measure the capacity of a pot, which of the following tools is the most suitable?

- A. a bowl
- B. a tea spoon
- C. a straw
- D. a scale

30. The model below is made up of some 3-D shapes. Write their names in the boxes.

(a)
(b)
(c)
31. Which is best suited to measure the length of a mouse?

- A. Stride length
- B. Foot length
- C. Arm length
- D. Finger width

32. Name the following quadrilaterals.

(a) Answer: ___________ (b) Answer: ___________
33. Study the 3-D shapes below. Write down all the letters for the answers.

List:
(a) Pyramid(s) / Cone(s): _________________
(b) Prism(s) / Cylinder(s): _________________
(c) Sphere(s): _________________
By cutting along the dotted line in the diagram, you can get

○ A. two isosceles triangles.
○ B. two equilateral triangles.
○ C. two right-angled triangles.
○ D. one isosceles triangle and one right-angled triangle.

35. Study the 2-D figures below.

(a) The figure below has * straight line(s) / curve(s) / parallel lines / perpendicular lines. 
(*Circle all the answers)

(b) The figure below has * straight line(s) / curve(s) / parallel lines / perpendicular lines. 
(*Circle all the answers)
36. In the figure below, draw along the dotted lines to show a pair of perpendicular lines.

37. In the figures below, arrange the angles r, s and m from the largest to the smallest.

Answer: \( \text{(Largest)} \), \( \text{ }, \) \( \text{(Smallest)} \)
Miss Ma has done a survey on P.3D pupils’ favourite field trip sites. The results are as follows:

<table>
<thead>
<tr>
<th>P.3D Pupils’ Favourite Field Trip Sites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Farmland</td>
</tr>
<tr>
<td>Tai O Fishing Village</td>
</tr>
<tr>
<td>Wetland Park</td>
</tr>
<tr>
<td>The Peak</td>
</tr>
<tr>
<td>Nature Education Centre</td>
</tr>
</tbody>
</table>

Each child figure stands for 1 pupil.

(a) The most popular site is ____________ and the number of pupils choosing it is ________.

(b) The number of pupils who choose The Peak is ________ *more / less than those who choose Tai O Fishing Village. (*Circle the answer)

(c) The number of P.3D pupils taking part in this survey is ________.
39. The teachers discuss the themes for environmental education.

(a) The voting result for the theme for environmental protection is shown below. Complete the table according to the voting record.

<table>
<thead>
<tr>
<th>Theme</th>
<th>Land Pollution</th>
<th>Air Pollution</th>
<th>Noise Pollution</th>
<th>Water Pollution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tally</td>
<td>4 3</td>
<td>4 2</td>
<td>3</td>
<td>4 3 1</td>
</tr>
<tr>
<td>Number of votes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(b) According to the above table, complete the pictogram below and give it a title.

(Title)

Each circle stands for 1 vote

Land Pollution

Air Pollution

Noise Pollution

Water Pollution

—END OF PAPER—