Education and Manpower Bureau
Territory-wide System Assessment 2006
Primary 3
Mathematics

Instructions:
1. There are 36 questions in this test.
2. Answer all questions.
3. The time allowed is 40 minutes.
4. Use of calculators is not allowed.
5. Write your answers in this question booklet.
   (a) Multiple choice questions:
       Mark your answers by putting a “✓” in the “〇”, e.g.:
       $2 + 3 =$
       〇 A. 4  ✓ B. 5  〇 C. 6  〇 D. 7
   (b) Questions in which you are asked to “Show your working”:
       Write your mathematical expressions, answers and statements/conclusions in the space provided. There is NO need to show your rough work.
   (c) Other types of questions:
       Answer as required in the space provided.
6. Do your rough work on the rough work sheet provided.
7. Write your School Code, Class and Class Number in the spaces below.

School Code
(5)

Class
(11)

Write one capital letter in this box
此格只許填寫一個大楷英文字母
1. Write the number 49 230 in words.
   Answer: ____________________________

2. With the given 5 beads, what is the largest 5-digit number that can be shown on the abacus? Draw the beads on the abacus to show your answer.

   + + + + +

   Ten thousands Thousands Hundreds Tens Units

3. \(234 + 66 = \) __________

4. \(690 - 281 - 118 = \) __________

5. \(490 \times 9 = \) __________

6. \(520 \div 5 = \) __________

7. \(6 \times 132 - 32 = \)
   
   \[ \begin{array}{c}
   \text{A. } 792 \\
   \text{B. } 750 \\
   \text{C. } 600 \\
   \text{D. } 760 \\
   \end{array} \]
8. Fill in the boxes with the correct numbers.

\[
\frac{4}{9} \quad 3 \quad 7
\]

\[
\begin{array}{c}
36 \\
27 \\
7
\end{array}
\]

9. The table below shows the cost of sending letters.

<table>
<thead>
<tr>
<th>Weight</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not over 30 g</td>
<td>1 dollar 40 cents</td>
</tr>
<tr>
<td>Not over 50 g</td>
<td>2 dollars 20 cents</td>
</tr>
<tr>
<td>Not over 100 g</td>
<td>3 dollars</td>
</tr>
<tr>
<td>Not over 150 g</td>
<td>3 dollars 70 cents</td>
</tr>
</tbody>
</table>

(a) Susan sends 2 letters weighing 50 g and 150 g respectively. Altogether she has to pay

_______ dollars and _______ cents.

(b) Paul sends 2 letters weighing 25 g and 75 g respectively. Altogether he has to pay

_______ dollars and _______ cents.
10. My mother buys 1 pineapple and 4 apples. Altogether she has to pay $ \underline{\phantom{1000}} \phantom{0000}

11. Sally had 500 bags of cookies. She sold many of them for charity and was left with 320 bags of cookies. How many bags of cookies did she sell?

   Answer: She sold \underline{\phantom{1000}} \phantom{0000} bags of cookies.

12. 263 pupils join the School Easter Party. Each pupil will receive one Easter egg. There are 6 eggs in each box. At least how many boxes of Easter eggs does the school need to buy?

   (Show your working)
13. 

<table>
<thead>
<tr>
<th></th>
<th>Slippers</th>
<th>Children’s Shoes</th>
<th>Sandals</th>
<th>Sports Shoes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$49 a pair</td>
<td>$135 a pair</td>
<td>$219 a pair</td>
<td>$385 a pair</td>
</tr>
</tbody>
</table>

My brother and I are shopping with father and mother.
(a) Mother buys me a pair of slippers and a pair of children’s shoes. How much change should she get if she pays with a $500 note?
(Show your working)

(b) My brother wants to buy a pair of sports shoes but he only has $320. Father gives him $100. He should have $ _______ left after buying the sports shoes.
14. The following three fractions are arranged from the smallest to the largest. What number can be put into the box? List all the possible numbers.

\[
\begin{align*}
\frac{6}{11} & , & \frac{?}{11} & , & \frac{9}{11} \\
\text{(smallest)} & & \text{(largest)}
\end{align*}
\]

Answer: All the possible numbers that can be put into the box are ________________.

15. On Sports Day, 12 scouts are on duty. \(\frac{1}{4}\) of the scouts are responsible for the flag raising ceremony. The rest are responsible for keeping order.

(a) Circle the number of scouts who are responsible for the flag raising ceremony.

(b) How many scouts are responsible for keeping order?

Answer: _______ scouts

16. My mother and I went to Cheung Chau by ferry. The total fare we paid was as follows:

The total fare was _______ dollars and _______ cents.
17. (a) 8 (5) can be exchanged for ____
(b) 10 (10) can be exchanged for ____
(c) 3 (1) can be exchanged for ____ (20).

18. Some animals are comparing each other's height.

Lion  Rabbit  Zebra  Buffalo  Elephant  Giraffe

(a) The _____________ is shorter than the elephant but taller than the buffalo.
(b) If all the animals line up in order, from the tallest to the shortest, the ___________ is in the fifth place.

19. Fill in each of the following blanks with a suitable unit of length.

(a) The height of The Peak is about 554 ________ .
(b) The length of a $1.40 Hong Kong stamp is about 35 ________ .
(c) The Airport Express railway is about 35 ________ long.
(d) The length of an ‘Octopus Card’ is about 9 ________ .
20. 

<table>
<thead>
<tr>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
</tr>
<tr>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
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<tr>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
<td>22</td>
<td>23</td>
<td>24</td>
</tr>
<tr>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
<td>29</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(a) I will take part in the Talent Show on the second Saturday in February. The date of the Talent Show is the ______ of ________

(month)  
(b) My father will go to Thailand on the fourth Thursday in February for a 5-day tour. The date of his return is the ______ of ________.

(month)  
(c) This year is a * common year / leap year (*circle the correct answer), which has ______ days.

21. With the flight information given below, fill in the departure times with “the 24-hour time system” in the following table.

(a) Flight HP308 to Taipei will depart at a quarter to twelve in the morning.

(b) Flight KG153 to Sydney will depart at four o’clock in the afternoon.

<table>
<thead>
<tr>
<th>Departure Time</th>
<th>Flight No.</th>
<th>Destination</th>
<th>Airline</th>
</tr>
</thead>
<tbody>
<tr>
<td>07:50</td>
<td>TY407</td>
<td>Beijing</td>
<td>Unified Airline</td>
</tr>
<tr>
<td>______ : ______</td>
<td>HP308</td>
<td>Taipei</td>
<td>Peaceful Airline</td>
</tr>
<tr>
<td>______ : ______</td>
<td>KG153</td>
<td>Sydney</td>
<td>Kangaroo Airline</td>
</tr>
<tr>
<td>20:00</td>
<td>GD229</td>
<td>Singapore</td>
<td>Garden Airline</td>
</tr>
</tbody>
</table>
22. The time shown by the clock face is __________ minutes past __________ in the morning.

23. Which of the following is the most suitable instrument to measure the capacity of a rice bowl.

- A.  
  ![5 L](image)
- B.  
  ![1 L](image)
- C.  
  ![Ladle](image)
- D.  
  ![Scale](image)

24. Which is lighter and by how much?
The * pumpkin / pork is lighter (*circle the correct answer) than the other by ________ g.
25. Mary was comparing the capacities of containers A and B. She filled up container A with water and then poured it all into container B as shown in the figure on the right.

The capacity of container ______ is larger.

26. Fill in each of the following blanks with a suitable unit of capacity.

(a) The capacity of a can of soft drink is 355 _______.

(b) A fish tank can hold about 20 _______ of water.

27. Study the following 3-D shapes. Write the letter(s) for the answer.

(a) Pyramid(s): ________________

(b) Prism(s): ________________

(c) Sphere(s): ________________
28. Name the following quadrilaterals.

(a) Answer: 

(b) Answer: 

(c) Answer: 

29.

A

B

C

D

E

F

(a) Which of the above figures is an equilateral triangle?
Answer: 

(b) Which of the above figures are isosceles triangles?
Answer: 
30. By cutting the triangle along the dotted line (as shown on the right), we can get one ______________ triangle and one ______________ triangle.

31.

(a) Which of the above figures is/are made up of straight lines only?

Answer: ______________

(b) Which of the above figures is/are made up of curves only?

Answer: ______________

(c) Which of the above figures is/are made up of straight lines and curves?

Answer: ______________
32. Study the figure on the right. Which of the following are correct? Write the letters for the answer.

A. Angle P is a right angle.
B. Angle Q is larger than Angle R.
C. Angle R is larger than a right angle.

Answer: ______________

33. (a) From the five points in Figure 1, choose two points and join them to form a straight line so that it is parallel to the given line PQ.

(b) From the five points in Figure 2, choose two points and join them to form a straight line so that it is perpendicular to the given line PQ.
Some children are playing hide-and-seek in the park.

(a) May is hiding to the ________ of Ben. Ben is standing to the ________ of Dave.

(b) Julie wants to hide in the Shop. She should first go ________, passing the ________, and then go ________ to reach the Shop.
35. The lunch supplier has done a survey on the teachers' favourite lunch set. The results of the survey are as follows.

<table>
<thead>
<tr>
<th>Lunch Set</th>
<th>Number of persons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sandwich</td>
<td>4</td>
</tr>
<tr>
<td>Noodles</td>
<td>6</td>
</tr>
<tr>
<td>Rice</td>
<td>7</td>
</tr>
<tr>
<td>Sushi</td>
<td>2</td>
</tr>
<tr>
<td>Congee</td>
<td>3</td>
</tr>
</tbody>
</table>

According to the results of the survey, complete the following pictogram and fill in a title.

(Title)

Each ☺ represents 1 person
36. Miss Lee has done a survey on the favourite games of the members in the Chess Club. The results are as follows.

**Favourite Games of the Members in the Chess Club**

Each  represents 1 pupil

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Chess</td>
<td>Chinese Checkers</td>
<td>Apple Chess</td>
<td>Chinese Chess</td>
<td>Snake and Ladder</td>
</tr>
</tbody>
</table>

(a) The most popular game is ______________________.
There are ______ members who like this game.

(b) The total number of members who like ______________________ and ______________________
is the same as the number of members who like Chinese Checkers.

(c) The Chess Club has a total of ______ members.

--- END OF PAPER ---