Education Bureau
Territory-wide System Assessment 2010
Primary 3
Mathematics

Instructions:
1. Stick barcode labels on pages 1, 3, 5, 7 and 9 in the spaces provided.
2. There are 38 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 space provided.
1. In the number 30 009, what does ‘3’ stand for?
   - A. Thirty
   - B. Three hundred
   - C. Three thousand
   - D. Thirty thousand

2. Which of the following is ‘fifty thousand and three hundred’?
   - A. 50 030
   - B. 53 000
   - C. 50 300
   - D. 53 000

3. [Diagram of abacus with counters in the thousands, hundreds, and units places]

   Write in numerals the number shown on the above abacus.
   Answer: ________________

4. 82 + 98 = _______

5. 308 - 173 - 73 = _______
6. Which of the following is correct?

- A. $7 \div 749$
  \[ \begin{array}{c}
  17 \\
  
  \end{array} \]

- B. $7 \div 749$
  \[ \begin{array}{c}
  17 \\
  
  \end{array} \]

- C. $7 \div 749$
  \[ \begin{array}{c}
  107 \\
  
  \end{array} \]

- D. $7 \div 749$
  \[ \begin{array}{c}
  170 \\
  
  \end{array} \]

7. $8 \times 260 = \_\_\_\_$

8. $870 \div 3 = \_\_\_\_$

9. $7 \times 123 - 681 = \_\_\_\_$

10. Mother divides a cake into 6 equal pieces. Peter eats 2 pieces. What fraction of the cake does Peter eat?

Answer: Peter eats \_\_\_\_\_ of the cake.
11. The diagram below is made up of squares of the same size. Some of the squares are shaded. Use a pencil to shade the rest of the squares, so that $\frac{11}{15}$ of the whole diagram is shaded.

12. Kitty has one $100$ . After she buys a cartoon book for 36 dollars and 50 cents, she still has _______ dollars and _______ cents left.

13. Michael has $800. He spends $125 on books and $85 on toys. Michael has $_______ left.

14. Each page of a photo album can hold 4 photographs. Jenny puts 134 photographs into the album. At least how many pages have photographs?

Answer: At least _______ pages have photographs.
15. There are 46 pupils in the sports team. The number of pupils in the choir is 3 times that in the sports team. There are _______ pupils in the choir.

16. The weight of each bag of rice is 8 kg. The weight of each bag of flour is 5 kg. The total weight of six bags of rice and one bag of flour is _______ kg.

17. The price of each adult ticket for a concert is $260. A child ticket is $25 cheaper than an adult ticket. Mother buys one adult ticket and one child ticket. How much does she pay altogether? (Show your working)
18. A grocery has eight cartons of grapes. The weight of each carton of grapes is 10 kg. Three cartons of grapes are sold in the morning and 5 kg of grapes are sold in the afternoon. What is the total weight of grapes sold? (Show your working)

19. [Diagram of a lollipop]

The length of the lollipop is ________ mm.

20. Write down the suitable measuring unit in each of the following.
   (a) The tallest building in Hong Kong is Two International Finance Centre, which is about 416 ________ tall.
   (b) The Tate’s Cairn Tunnel is about 4 ________ long.
   (c) An umbrella weighs about 480 ________.
   (d) An air conditioner weighs about 30 ________.
21. Use the August calendar below to answer the following questions.

<table>
<thead>
<tr>
<th></th>
<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>1</td>
<td>2</td>
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<td>4</td>
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<td>7</td>
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<td>30</td>
<td>31</td>
<td></td>
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</tr>
</tbody>
</table>

(a) Tina joined a flag-selling activity on the last Wednesday of July. The date was the ________ of ________.
(month)

(b) The Toy Fair will start on the second Thursday of August. It will be held for 5 days. The Toy Fair will end on the ________ of ________.
(month)

22. The weight of the bag of biscuits is ________.
(Give your answer with a unit)
23. Study the diagrams above. Which of the following is correct?

- A. [Diagram] is lighter than [Diagram].
- B. [Diagram] is heavier than [Diagram].
- C. [Diagram] and [Diagram] weigh the same.
- D. [Diagram] and [Diagram] weigh the same.

24. (a) The tennis match started at \(3:15 \text{ PM}\).

It was ________ minutes past ________ in the *morning / afternoon. (*Circle the answer)

(b) Father started watching the tennis match live on television at \(4:41 \text{ PM}\). The match had started for ________ hour(s) and ________ minute(s).
25. The price of the rucksack is one hundred sixty-two dollars and seventy cents.

(a) Write the price in numerals on the price tag.

(b) If Joyce wants to buy the rucksack, how much should she pay? Circle the amount.

26. To fill up the beaker with 600 mL of water, you must add ______ mL of water.
27. Container R is filled up completely with water and all the water is poured into container S. The result is shown in Figure 1.

![Figure 1]

The water in container S is then poured away. Container T is filled up with water and all the water is poured into container S. The result is shown in Figure 2.

![Figure 2]

According to the results, which of the following is correct?

- A. The capacity of container T is smaller than the capacity of container R.
- B. The capacity of container T is larger than the capacity of container R.
- C. The capacity of container T is the smallest.
- D. The capacity of container S and container T is the same.
28. of water can fill up  

of water can fill up  

of water can fill up  

of water can fill up  

29. The timetable below shows the afternoon television programmes.

<table>
<thead>
<tr>
<th>Time</th>
<th>Programme</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00</td>
<td>News</td>
</tr>
<tr>
<td>1:25</td>
<td>Sports</td>
</tr>
<tr>
<td>2:05</td>
<td>Noon Music</td>
</tr>
<tr>
<td>2:55</td>
<td>Movie of the Day</td>
</tr>
<tr>
<td>4:25</td>
<td>Little Cat</td>
</tr>
</tbody>
</table>

(a) Use ‘24-hour time’ to show the starting time of ‘Movie of the Day’. The time is _______ : _______.

(b) Now, it is 3:18 p.m. ‘Little Cat’ will begin in _______ hour(s) and _______ minute(s).
30. Victor wants to make a rhombus on the above pin-board using a rubber band. He should join point * D / E / F / G with points A, B and C to make the rhombus. (*Circle the answer)

31. By cutting along the dotted lines in the rectangle shown above, we can get three triangles. B is a/an ___________________ triangle.
32. Some 3-D shapes form the model below. Write their names in the boxes.

(a)  
(b)  
(c)  
(d)  

33. The diagram below is made up of 2-D shapes. Follow the instructions. Write down the letter(s) for the answers.

List:
(a) Trapezium(s): ________________
(b) Parallelogram(s): ________________
(c) Hexagon(s): ________________
34. Follow the instructions. Write down the letter(s) for the answers.

List:
(a) Prism(s): ____________________
(b) Pyramid(s): ____________________
(c) Cylinder(s): ____________________
(d) Sphere(s): ____________________
35. In Figure A, draw on the dotted lines to show a pair of parallel lines.

![Figure A](image)

In Figure B, draw on the dotted lines to show a pair of perpendicular lines.

![Figure B](image)
36. Follow the instructions. Write down the letter(s) for the answers.

List:
(a) Right angle(s): ______________

(b) Angle(s) larger than a right angle: ______________
37. The following pictogram shows the number of websites browsed by five pupils.

**Number of browsed websites**

Each 🏆 stands for 1 website

<table>
<thead>
<tr>
<th>Paul</th>
<th>Mimi</th>
<th>Hugo</th>
<th>Nancy</th>
<th>Raymond</th>
</tr>
</thead>
<tbody>
<tr>
<td>🏆</td>
<td>🏆</td>
<td>🏆</td>
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</tbody>
</table>

(a) Who browsed the largest number of websites? Answer: The number of websites browsed by ___________ was the largest.

(b) Raymond browsed ______ websites
*more / less than Hugo. (*Circle the answer)

(c) The websites browsed by Mimi and Hugo were all different. They browsed a total of ______ websites.
38. The following table shows the favourite snacks of 22 children.

<table>
<thead>
<tr>
<th>Snack</th>
<th>Cookie</th>
<th>Muffin</th>
<th>Ice-cream</th>
<th>Pudding</th>
<th>Cake</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of children</td>
<td>3</td>
<td>2</td>
<td>5</td>
<td>4</td>
<td>8</td>
</tr>
</tbody>
</table>

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

(Title)

Each 🎉 stands for 1 child

Cookie 🎉 🎉 🎉
Muffin 🎉
Ice-cream 🎉
Pudding 🎉 🎉 🎉 🎉 🎉 🎉 🎉 🎉 🎉 🎉 🎉 🎉 🎉
Cake 🎉 🎉 🎉 🎉 🎉 🎉 🎉 🎉 🎉 🎉 🎉 🎉 🎉 🎉 🎉 🎉 🎉 🎉