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 37 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.
1. Three 5-digit numbers are arranged from the largest to the smallest as shown below.

78 101 , [blank] , 76 011
(Largest) (Smallest)

Which of the following is the number in the blank?

- A. 76 001
- B. 76 010
- C. 78 100
- D. 78 110

2. 

[0 0 1 1 0]

Use the 5 number cards above to form three different 5-digit numbers. Arrange the three numbers from the largest to the smallest.

Answer: [ ] , [ ] , [ ]
(Largest) (Smallest)

3. \[ 180 + 77 + 652 = \]

4. \[ 715 - 54 - 181 = \]

5. \[ 4 \times 32 \times 5 = \]

6. \[ 7 \times 251 = \]
7. \[983 \div 5 = \underline{\quad} \]

8. \[713 - (432 + 187) = \]
   - A. 468
   - B. 194
   - C. 104
   - D. 94

9. \[328 + 29 \times 6 = \underline{\quad} \]

10. Mr Chan donates 107 dollars each month to a child sponsorship programme. He donates a total of \[\underline{\quad}\] dollars in half a year.

11. The teachers have prepared 649 presents for the elderly. They have given away 145 presents on the first day and 209 presents on the following day. There are \[\underline{\quad}\] presents left.

12. A talk is held in the school hall. There are 38 rows, each with 8 seats. When the talk starts, there are 17 empty seats. The total number of people attending the talk is \[\underline{\quad}\].
13. Happy Bookshop gives a coupon for every 7 used books donated. Henry donates 112 used books. How many coupons does he get? (Show your working)

14. Peter buys a bag of rice and a plastic box. He has to pay $39.90 and $109.90. He has to pay _______ dollar(s) and _______ cent(s).
15. The charges for renting bikes are shown below.

- **Children’s bike**: $35
- **Four-wheel bike**: $59

Mr Chan and his family go cycling in the countryside. They rent 1 four-wheel bike and 3 children’s bikes. How much does he pay altogether? (Show your working)
16. Which of the following has \( \frac{1}{8} \) of the whole diagram shaded?

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

17. Ann and Elaine make 18 paper birds altogether. Ann makes \( \frac{1}{6} \) of the whole. Elaine makes ___ * more / less paper birds than Ann does.  

(*Circle the answer)
18. (a) \( \frac{8}{8} \) is * smaller than / equal to / larger than 1.  
(*Circle the answer)

(b) Fill in the boxes with suitable numbers.  
\( \frac{1}{2} \) is larger than \( \frac{\square}{\square} \).

19. The length of the watch is ________ mm.
20. Danny buys a bookcase in a furniture store.
   (a) Write the price of the bookcase.
       Answer: ___________ dollar(s)
               and ___________ cent(s).
       \[ $323.50 \]

   (b) Circle the money needed to buy the bookcase.

21. Write down a suitable measuring unit for each of the following.
   (a) The runway of Hong Kong International Airport is about 3800 _________ long.
   (b) Father’s shoe is about 30 _________ long.
   (c) A newborn baby weighs about 3 _________.
   (d) A pack of candies weighs about 50 _________.
22. Use the March calendar below to answer the following questions.

<table>
<thead>
<tr>
<th></th>
<th>Sunday</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td>3</td>
<td>4</td>
<td>5</td>
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<td>28</td>
<td>29</td>
<td>30</td>
<td>31</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(a) The third Thursday of March is the School Open Day. The date is the _____ of _________.
    (month)

(b) There are 6 days’ school holidays. The holiday will start on the 31st of March. The last
day of the holiday is _________________.
    (day of the week)

(c) This year is a common year. The 28th of February is _________________.
    (day of the week)
23. Aaron took part in a car race.

The race started at 9:05:25 AM.

He finished the race at 9:46:56 AM.

He took ________ minute(s) and ________ second(s) to finish the race.

24.

Compare the weights of A, B and C. Arrange them in order from the heaviest to the lightest.

Answer: ________, ________, ________
(Heaviest) (Lightest)
(a) The corn weighs ________ kg.

(b) The corn is *lighter/heavier than the one on the right by ________ kg. (*Circle the answer)
26. 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.
27. 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
28. The model below is made up of some 3-D shapes. Write their names in the boxes.

(a) 

(b) 

(c) 

29. Study the 2-D shapes below. Write down all the letters for the answers.

List:
(a) Rhombus(es): 

(b) Trapezium(s): 

Please do not write in the margin.
30. Follow the instructions. Write down all the letters for the answers.

A
B
C
D
E
F

List:
(a) Sphere(s): ______________
(b) Pyramid(s) / Cone(s): ______________
(c) Prism(s) / Cylinder(s): ______________
31. Which of the 2-D shapes above are triangles? Write down all the letters for the answer.

Answer: ____________

32. Fanny uses a rubber band to make a triangle on the pin-board below.

This is a/an ____________ triangle.
33. In the figure below, draw along the dotted lines to show a pair of parallel lines.

34. Follow the instructions. Write down all the letters for the answers.

List:
(a) Right angle(s): _____________
(b) Angle(s) smaller than a right angle: _____________
35. Study the map of the Exhibition Centre below.

(a) Medical Station is to the _________ of Toilet. (direction)

(b) Astronomy Centre is to the west of ____________________.

(c) David goes to Tuck-shop from Box Office. He first goes _________, passes Astronomy Centre and (direction) then goes _________ to reach Tuck-shop. (direction)
36. The following table shows the number of pupils awarded with prizes in the P.3 writing competition.

<table>
<thead>
<tr>
<th>Class</th>
<th>3A</th>
<th>3B</th>
<th>3C</th>
<th>3D</th>
<th>3E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of pupils</td>
<td>1</td>
<td>3</td>
<td>4</td>
<td>7</td>
<td>5</td>
</tr>
</tbody>
</table>

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

(Title)

Each ○ stands for 1 pupil
37. The following pictogram shows the favourite types of cakes of P.3B pupils.

**Favourite Types of Cakes of P.3B Pupils**

Each 🍰 stands for 1 pupil

<table>
<thead>
<tr>
<th>Strawberry</th>
<th>Almond</th>
<th>Cheese</th>
<th>Chocolate</th>
<th>Green Tea</th>
</tr>
</thead>
<tbody>
<tr>
<td>🍰 🍰 🍰 🍰</td>
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<td>🍰 🍰 🍰 🍰</td>
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</tbody>
</table>

(a) The most popular type of cakes is ____________
and the number of pupils who like it is ____________.

(b) The number of pupils who favour green tea cakes is ____________ *more / less than those who favour strawberry cakes. (*Circle the answer)

(c) The number of P.3B pupils taking part in this survey is ____________.

--- END OF PAPER ---