Education Bureau
Territory-wide System Assessment 2013
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.
1. In the number 52 184, what does the digit ‘4’ stand for?
   - A. Four
   - B. Forty
   - C. Four hundred
   - D. Four thousand

2. Tom uses the five number cards above to form three different 5-digit numbers and arrange them from the smallest to the largest. The first number is 53 034. Fill in the blanks with two suitable numbers.
   Answer: 53 034 , __________ , __________
   (Smallest) (Largest)

3. Write ‘eighty-eight thousand nine hundred and ninety-one’ in numerals.
   Answer: ___________________________

4. \[286 + 24 + 352 = \] __________

5. \[672 – 81 – 347 = \] __________
6. \[14 \times 8 \times 5 = \quad \]

7. \[236 \times 3 = \quad \]

8. \[533 \div 9 = \quad \]

9. \[78 + 222 \times 2 = \]
   - A. 422
   - B. 512
   - C. 522
   - D. 600

10. Mr Lee buys 7 boxes of chicken wings. Each box weighs 23 kg.

    (a) He has bought a total of \[\quad\] kg of chicken wings.

    (b) He packs the chicken wings in packets of 3 kg. At most, he can pack \[\quad\] packets of chicken wings, and \[\quad\] kg are left.
11. A nature trail has parts A and B. The length of A is 737 m. The length of B is 185 m shorter than that of A. What is the total length of the nature trail?
(Show your working)

12. Each coach can carry 53 passengers. After 8 coaches depart with all their seats taken, there are still 27 passengers waiting at the station. There are _________ passengers waiting at the station originally.

13. Goodie Cake Shop sells 236 chocolate cakes, 434 mango cakes and 177 chestnut cakes. How many cakes does the shop sell altogether?
(Show your working)
14. A florist can make 21 bouquets of flowers each day. How many bouquets can 6 florists make in \textbf{one week}?

- A. 126 bouquets
- B. 782 bouquets
- C. 842 bouquets
- D. 882 bouquets

15. Brian and his three friends take the train. Each of them pays ______ dollars and ______ cents on average.

\textbf{Special Train Fare}
Only 42 dollars for 4 people
16. William buys a pizza at the special price. 
He saves _______ dollars and _______ cents.

17. Jenny buys 12 sticks of roasted meat.

(a) \( \square \) of all the roasted meat is pork. 
(b) Jenny eats \( \frac{1}{4} \) of all the roasted meat. That is _________ sticks of roasted meat.
18. The following diagram is made up of squares of equal size. Use a pencil to shade $\frac{3}{7}$ of the whole diagram.

19. Fill in the boxes with suitable numbers.

   (a) $1$ is equal to $\boxed{\phantom{00}}$.

   (b) $\frac{5}{8}$ is smaller than $\boxed{\phantom{00}}$. 
20. Nancy pays the following amount for exercise books.

- There are ______ 2-dollar coins in the above diagram.
- Nancy pays ______ dollar(s) and ______ cent(s) for the exercise books.

21. The figure above is

- a right-angled / an isosceles / an equilateral triangle. (*Circle the answer)
- Use a ruler to measure the shortest side of the triangle. The length of this side is ______ mm.
22. The babies are racing to the finishing line.

(a) * Susan / Kelvin / Leon / Teddy is nearest to the finishing line. (* Circle the answer)

(b) * Susan / Kelvin / Teddy is nearest to Leon. (* Circle the answer)
23. Study the diagram below and then answer the questions.

(a) A coach takes the pupils from School to Music Garden. It then goes to Car Park. The whole journey of the coach is _________ km.

(b) A private car sets off from Car Park. It stops for petrol at a petrol station before going to School. The shorter route to School is passing Petrol Station * A / B . (* Circle the answer) The whole journey of the private car is _________ km.
24. Which of the following is most suitable for measuring the height of a post box?

- A. [Image of a tape measure]
- B. [Image of a compass]
- C. [Image of a finger]
- D. [Image of a meter]

25. Fill in the following blanks with suitable units.

(a) A hamburger weighs about 300 ________.

(b) The length of a comb is about 20 _________.

Go on to the next page
26. Which of the following tools is most suitable for measuring the weight of a mobile phone?

- A. [Image of a digital scale]
- B. [Image of a ruler]
- C. [Image of a small laboratory balance]
- D. [Image of a bathroom scale]

27. The mobile phone weighs ________________.

(Give your answer with a unit)
28. The following are the recorded times of the best four athletes in a race.

<table>
<thead>
<tr>
<th>Rank</th>
<th>Athlete</th>
<th>Recorded Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Carl</td>
<td>7 minutes and 17 seconds</td>
</tr>
<tr>
<td>2</td>
<td>Leon</td>
<td>7 minutes and 36 seconds</td>
</tr>
<tr>
<td>3</td>
<td>Kenny</td>
<td>8 minutes and 37 seconds</td>
</tr>
<tr>
<td>4</td>
<td>John</td>
<td>9 minutes and 0 second</td>
</tr>
</tbody>
</table>

(a) The champion is faster than the first runner-up by ___________ seconds.

(b) The race started at two o’clock in the afternoon. In 24-hour time, John finished the race at ___________ : ___________.

29. Fill up Container P with water and then pour all the water into an empty beaker.

The capacity of Container P is ___________ mL.
30. Study the following 3-D shapes.
(a)

This is a * cylinder / sphere / cone .
(*Circle the answer)

(b)

This is a * prism / cone / pyramid .
(*Circle the answer)

31. Name the following quadrilaterals.

(a) Answer: _____________   (b) Answer: _____________
32. Follow the instructions. Write down all the letters for the answers.

List:
(a) Sphere(s): ______________
(b) Pyramid(s)/Cone(s): ______________

33. Fred uses a rubber band to make a right-angled triangle on a pin-board. The figure below shows one of its sides. Draw the other sides of the right-angled triangle.
34. Paul uses different 2-D shapes to form a picture of a tank.

(a) There is/are ___________ triangle(s) in the diagram above.

(b) There is/are ___________ square(s) in the diagram above.

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

List:
(a) Circle(s): ____________________
(b) Pentagon(s): ________________
36. Study the 2-D shapes below. Write down all the letters for the answers.

List:
(a) Figure(s) having straight lines only: ________________
(b) Figure(s) having straight lines and curves: ________________
37. The following is the map of a playground.

(a) Pavilion is to the south of ____________.

(b) Carman goes ____________ from Garden to play See saw.  
    (direction)

    Then she goes ____________ to reach Maze.  
    (direction)
38. The school held a Healthy Eating Week. Mr Wong did a survey on the favourite healthy food of P.3D pupils. The results are as follows:

<table>
<thead>
<tr>
<th>Healthy food</th>
<th>Yogurt</th>
<th>Nuts</th>
<th>Cereals</th>
<th>Fruits</th>
<th>Cheese</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of pupils</td>
<td>3</td>
<td>8</td>
<td>2</td>
<td>2</td>
<td>6</td>
</tr>
</tbody>
</table>

According to the result, complete the following pictogram and give it a title.

(Title)

Each ○ stands for 1 pupil

Yogurt

Nuts

Cereals

Fruits

Cheese
39. Mr Wu did a survey on the favourite nuts of P.3A pupils. Each pupil chose one type only.

**Favourite Nuts of P.3A Pupils**

<table>
<thead>
<tr>
<th>Nuts</th>
<th>🧀</th>
<th>🧀</th>
<th>🧀</th>
<th>🧀</th>
</tr>
</thead>
<tbody>
<tr>
<td>Almonds</td>
<td>🧀</td>
<td>🧀</td>
<td>🧀</td>
<td>🧀</td>
</tr>
<tr>
<td>Walnuts</td>
<td>🧀</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peanuts</td>
<td>🧀</td>
<td>🧀</td>
<td>🧀</td>
<td>🧀</td>
</tr>
<tr>
<td>Pistachios</td>
<td>🧀</td>
<td>🧀</td>
<td>🧀</td>
<td></td>
</tr>
<tr>
<td>Hazelnuts</td>
<td>🧀</td>
<td>🧀</td>
<td>🧀</td>
<td>🧀</td>
</tr>
</tbody>
</table>

(a) The total number of pupils who favoured walnuts and pistachios was the same as that of pupils who favoured ____________.

(b) The number of pupils who favoured hazelnuts was _____________ * more / less than that of pupils who favoured pistachios. (*Circle the answer)

(c) Mr Wu wants to buy some nuts for the pupils. According to the pictogram, which type(s) of nuts should he buy more of? Why?

**Answer:** Mr Wu should buy more ____________ because ____________________________ ____________________________ ____________________________ ____________________________.

— END OF PAPER —