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 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
學校編號

Class
班別

Class No.
班號

Write one capital letter in this box
1. In which of the following numbers is the digit ‘1’ in the tens place?
   - O A. 19 456
   - O B. 45 619
   - O C. 54 691
   - O D. 91 456

2. The following table shows the numbers of primary teachers over the past three years.

<table>
<thead>
<tr>
<th>Year</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of primary teachers</td>
<td>22902</td>
<td>21905</td>
<td>21880</td>
</tr>
</tbody>
</table>

Arrange the numbers of primary teachers from the smallest to the largest.

Answer: ________, ________, ________
(Smallest) (Largest)

3. Write the number ‘46035’ in words.

Answer: ________________________________

4. $73 + 803 = _________$
5. \(233 - 158 = \) ________

6. \(529 - (289 - 137) = \)
   - A. 103
   - B. 203
   - C. 377
   - D. 477

7. \(7 \times 161 = \) ________

8. \(612 \div 3 = \) ________

9. \(151 \div 5 = \)
   - A. 31
   - B. 3…1
   - C. 30
   - D. 30…1
10. \[455 - 55 \times 3 =\]

- A. 165
- B. 290
- C. 390
- D. 1200

11. The weight of one piece of cake is 136 g. What is the weight of 4 pieces of cake?

Answer: The weight of 4 pieces of cake is ______ g.

12. Mother buys 3 . She pays

_____ dollars and _____ cents altogether.
13. The following table shows the number of pupils in Primary 1 to Primary 3.

<table>
<thead>
<tr>
<th>Level</th>
<th>P.1</th>
<th>P.2</th>
<th>P.3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of pupils</td>
<td>132</td>
<td>114</td>
<td>109</td>
</tr>
</tbody>
</table>

There are 267 teachers and pupils visiting the Hong Kong Park. All P.1 and P.2 pupils join the visit and the rest are teachers. How many teachers join the visit?  
(Show your working)

14. In the school fundraising event, Class 3A has collected 652 dollars.

(a) Class 3B collected 140 dollars more than Class 3A.  
Class 3B collected _________ dollars.

(b) Class 3C collected 709 dollars.  
That is _________ dollars less than Class 3B collected.
15. Mandy has a bottle of apple juice. After drinking half the bottle, 250 mL of apple juice is left over. How many millilitres of apple juice is there in the bottle originally? (Show your working)

16. Which of the following has \( \frac{7}{8} \) of the whole figure shaded?

- A.
- B.
- C.
- D.
17. In the following figure, what fraction of the whole is shaded?

Answer: \[
\begin{array}{|c|c|}
\hline
& \\
\hline
\end{array}
\]
of the whole is shaded.

18. Which of the following is correct?

- A. \(\frac{1}{2}\) is smaller than \(\frac{1}{5}\)
- B. \(\frac{2}{9}\) is larger than \(\frac{2}{7}\)
- C. \(\frac{1}{3}\) is larger than \(\frac{1}{5}\)
- D. \(\frac{5}{6}\) is smaller than \(\frac{5}{8}\)
19. Mother has a bottle of apple juice. Billy drinks $\frac{3}{10}$ of the whole, Cindy drinks $\frac{3}{14}$ of the whole and Mandy drinks $\frac{1}{14}$ of the whole.

Who drinks most of the apple juice?
Answer: * Billy / Cindy / Mandy drinks most of the apple juice. (* Circle the answer)

20. Nancy pays the following amount for exercise books.

(a) There are _________ 2-dollar coins in the above diagram.

(b) Nancy pays _________ dollar(s) and _________ cent(s) for the exercise books.
21. (a) 3 \hspace{1cm} \text{can be exchanged for} \hspace{1cm} \underline{10} \hspace{1cm} .

(b) 2 \hspace{1cm} \text{can be exchanged for} \hspace{1cm} \underline{20} \hspace{1cm} .

(c) 10 \hspace{1cm} \text{can be exchanged for} \hspace{1cm} \underline{50} \hspace{1cm} .

22. Fill in the following blanks with suitable units.

(a) The length of a highway is about 15 \hspace{1cm} .

(b) The weight of a primary school pupil is about 35 \hspace{1cm} .

(c) The thickness of a 10-dollar coin is about 3 \hspace{1cm} .
23. Answer the following questions according to the September calendar below.

<table>
<thead>
<tr>
<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></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
</tr>
<tr>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
<td>22</td>
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<tr>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
<td>29</td>
</tr>
<tr>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(a) Mary’s school term starts on the first Monday of September.

That day is the ______ of ______. (month)

(b) From the 10\textsuperscript{th} of September, there is an assembly every Monday.

In September, there are ______ days with an assembly.

(c) The 30\textsuperscript{th} of August is ______. (day of the week)
24. The following two clock faces show the times at which Tommy leaves home and arrives at school respectively.

(a) Tommy leaves home at ___________ minutes
* past / to ___________ in the morning.
(* Circle the answer)

(b) In 24-hour time, Tommy arrives at school
at ______ : ______.

(c) The first lesson begins at eight o’clock in the morning.
Tommy arrives at school ___________ minutes
before the first lesson begins.
25. Study the diagram above. Which of the following is correct?

- A. \( \square \) is lighter than \( \square \).
- B. \( \square \) is heavier than \( \square \).
- C. \( \square \) and \( \square \) weigh the same.
- D. The weights of \( \square \) and \( \square \) cannot be compared.
26. Fill up the container $P$ with water and then pour all the water into an empty bowl.

Pour all the water from the bowl into an empty container $Q$. Container $Q$ is just filled up with water.

According to the information above, which of the following is correct?

- A. The capacity of $P$ is larger than the capacity of $Q$.
- B. The capacity of $P$ is equal to the capacity of $Q$.
- C. The capacity of $P$ is smaller than the capacity of $Q$.
- D. The capacities of $P$ and $Q$ cannot be compared.
27. Of water can fill up

28. The 3-D shape above is a

- A. prism.
- B. cylinder.
- C. pyramid.
- D. cone.
29. Name the 3-D shape below.

Answer: ____________

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

List:

(a) Hexagon(s): ____________

(b) Quadrilateral(s): ____________
31. Mandy uses a rubber band to make two
* equilateral / right-angled / isosceles triangles
on the pin-board.
(* Circle the answer)

32. Draw a straight line perpendicular to the line given in the figure below.
33. Study the 2-D shapes below. Write down all the letters for the answers.

List:
(a) Figure(s) having curves only: __________________
(b) Figure(s) having straight lines and curves: _________

34. Study the diagrams above. Arrange the three angles a, b and c from the smallest to the largest.

Answer: ____________, ____________, ____________
(Smallest) (Largest)
35. The following is the map of a playground.

(a) Swing is to the ________ of Seesaw.  
(direction)

(b) Pavilion is to the west of ____________.
36. P.3E pupils did a survey on the most popular hotpot dishes. Each pupil chose one dish only.

The Most Popular Hotpot Dishes of P.3E Pupils

Each smiley face stands for 1 pupil

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Beef</td>
<td>Prawns</td>
<td>Fishballs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sausages</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sweetcorn</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Meatballs</td>
</tr>
</tbody>
</table>

(a) The number of pupils who chose ________ and the number of pupils who chose ________ were the same. There were ________ pupils who chose each of the dishes.

(b) Compare the most popular and the least popular dishes. The difference was ________ pupils.

(c) There were 35 pupils in P.3E. ________ of them did not vote.
37. John counted the number of sweets of different colours in a packet. The results are as follows:

(a) According to the record, complete the table below.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Red</th>
<th>Blue</th>
<th>Yellow</th>
<th>Green</th>
<th>Orange</th>
</tr>
</thead>
<tbody>
<tr>
<td>Record</td>
<td>☐☐☐☐</td>
<td>☐☐☐</td>
<td>☐☐☐☐</td>
<td>☐☐☐☐</td>
<td>☐☐☐☐</td>
</tr>
<tr>
<td>Number of sweets</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

![Pictogram]

(Title)

Each ☐ stands for 1 sweet

— END OF PAPER —