Education Bureau  
Territory-wide System Assessment 2013  
Primary 6  
Mathematics 

Instructions:
1. Stick barcode labels on pages 1, 3, 5, 7 and 9 in the spaces provided.
2. There are 41 questions in this test. Answer all questions.
3. Time allowed is 50 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  
此格只許填寫一個大楷英文字母
1. In the number 70 468, the digit ‘7’ is in the ______________ place.

2. Which of the following numbers is a common factor of 6 and 15?
   - A. 3
   - B. 6
   - C. 15
   - D. 30

3. Fill in the box with the correct number.
   
   \[
   \frac{17}{29} = \frac{51}{\underline{\phantom{123}}}
   \]

4. Express the mark pointed at by the arrow as a decimal. Write the answer in the box.

   \[
   \frac{1}{3}
   \]
5. Change 0.04 into a fraction and reduce it to the simplest form.

Answer: 

6. In the number 0.628, the digit ‘6’ is in the ______________ place.

7. When 902 is divided by 15, the quotient is _______ and the remainder is _______.

8. \(10 \div 9 \times 90 = \) __________

9. \(16 + 14 \times 9 = \)
   - A. 112
   - B. 138
   - C. 142
   - D. 270
10. \[
\frac{2}{3} + \frac{2}{3} - \frac{4}{3} = \boxed{0}
\]

11. Calculate \(1.73 ÷ 0.6\). Round the answer to one decimal place.

Answer: ____________

12. \(3.1 \times (5.6 + 6.4) = \boxed{_______}\)

13. \(\frac{3}{8} \times \frac{2}{3} \times \frac{2}{5} = \boxed{_______}\)

14. John has collected 540 stamps. He puts all the stamps in 3 stamp albums. Each stamp album has 12 pages. How many stamps does each page have on average?

Answer: Each page has __________ stamps on average.

15. \(\frac{12}{12}\) is * smaller than / equal to / larger than \(\frac{9}{9}\).

(* Circle the answer)
16. What percentage of the whole figure below is the shaded part?

![Shaded Figure]

Answer: The shaded part is \( \text{___________} \)% of the whole figure.

17. Charles has $90.40. He spends $50.80 on a lunch with his brother. He also buys his sister a storybook which costs $20.50.

Which of the following expressions is most suitable for estimating how many dollars Charles has left?

- A. \( 90 - 50 - 20 \)
- B. \( 90 - 60 - 30 \)
- C. \( 100 - 50 - 20 \)
- D. \( 100 - 60 - 30 \)
18. A football costs $36.40. A basketball is $3.80 cheaper than a football. A P.E. teacher buys a football and a basketball. How much should he pay altogether?

(Show your working)

19. (a) Change $\frac{37}{10}$ into a percentage.

Answer: _________ %

(b) Change 95% into a fraction and reduce it to the simplest form.

Answer: _________
20. A department store has 200 employees and 60% of them are female.

(a) ___________ % of the employees are male.

(b) There are ________ female employees in the department store.

21. Sports shoes of the same brand are sold in two shops.

<table>
<thead>
<tr>
<th>Shop</th>
<th>Original Price</th>
<th>Special Offer</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>$400.00</td>
<td>30% Off</td>
</tr>
<tr>
<td>B</td>
<td>$300.00</td>
<td>10% Off</td>
</tr>
</tbody>
</table>

Tom buys a pair of sports shoes of this brand in Shop B.
He will pay $ ________ * more / less if he buys them in Shop A. (* Circle the answer)
22. (a) The clock in the hall showed the time when the guest started his speech. The time was _______ minutes * past / to _______ in the afternoon. (* Circle the answer)
(b) The guest finished his speech after 40 minutes. In 24-hour time, the time was _______: ______.

23. A teacher draws a triangle and a circle. *O is the centre of the circle.

(a) The teacher draws * a right-angled / an isosceles / an equilateral triangle. (* Circle the answer)
(b) Use a ruler to measure the diameter of the circle.
Answer: The diameter is about _______ mm.
(Give your answer as a whole number)
24. Fill in the following blanks with suitable units.

(a) The length of a long-distance race is about 10 __________.

(b) A luggage weighs about 20 __________.

(c) The capacity of a hot water bag is about 1.5 __________.

25. Study the diagrams above. Which of the following statements is correct?

- A. The perimeters of X and Y are the same.
- B. The perimeter of X is longer than that of Y.
- C. The perimeter of Y is longer than that of X.
- D. The perimeter of X and Y cannot be compared.
26. Peter ran a race of 20.4 km. He finished the race in 2 hours. What was his average speed over the whole journey? (Show your working)

27. Study the 2-D shapes below. Write the letter(s) for the answer.

(a) Which of the 2-D shapes above is / are made up of curves only?

Answer: 

(b) Which of the 2-D shapes above is / are made up of straight lines and curves?

Answer: 
28.

The figure above is made up of Triangle A and Trapezium B.

(a) The area of Triangle A is \( \square \) cm\(^2\).

(b) What is the area of the whole figure?
   (Show your working)
29. The volume of the cuboid above is $\text{__________}$.
   (Give your answer with a unit)

30. In the figure below, O is the centre.

   (a) OY is the _____________ of the circle.

   (b) The shaded part in the figure is
       * an equilateral / a right-angled / an isosceles triangle.

   (* Circle the answer)
31. The figure above is a hexagonal * pyramid / prism. (* Circle the answer)

It has __________ edges.

32. Study the 2-D shapes below. Write the letter(s) for the answer.

(a) Trapezium: __________

(b) Equilateral triangle: __________
(a) Vivian goes __________ from Badminton Court to __________. Then she turns __________ to __________ to reach Flower Bed.

(b) Canteen is to the south-west of __________.

(c) After having a meal in Canteen, Bill goes __________ to Football Field.
34. Which of the following stands for ‘\( y \) is divided by 5 and then 2 is subtracted from the result’?

- A. \( \frac{y}{5} - 2 \)
- B. \( \frac{y - 2}{5} \)
- C. \( \frac{y}{5} - 2 \)
- D. \( \frac{5}{y} - 2 \)

35. Which of the following is an equation?

- A. \( \frac{16}{3} = \frac{51}{3} \)
- B. \( 3s + 12 = 12 \)
- C. \( 4 \times \frac{y}{4} \)
- D. \( 18 \div 6 = 3 \)

36. \( 30 = 3P + 10.5 \)

\[
P = \boxed{}\]
37. \[ \frac{y}{27} = \frac{7}{9} \]

\[ y = \]

38. **1-Day Tour to Geology Park**

Fee

- Adult: $260 each
- Child: each

The fee of an adult is $40 more than that of 2 children.

Find the fee of a child by the *method of solving an equation*. (Show your working)
39. The following pictogram shows the number of model cars made by Good Toy Factory in the last five months.

**Number of Model Cars Made by Good Toy Factory in the Last Five Months**

Each 🚗 stands for 1,000 model cars

<table>
<thead>
<tr>
<th></th>
<th>January</th>
<th>February</th>
<th>March</th>
<th>April</th>
<th>May</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>🚗</td>
<td>🚗</td>
<td>🚗</td>
<td>🚗</td>
<td>🚗</td>
</tr>
</tbody>
</table>

(a) Most model cars were made in _______ and _______ (month)

the number of model cars made was _______.

(b) A total number of _______ model cars were made from January to May.

(c) The number of model cars made in January was _______ times that of March.
40. The following shows the number of copies of newspapers sold at a newsstand last week.

<table>
<thead>
<tr>
<th>Newspaper</th>
<th>Big Daily</th>
<th>Wealth Daily</th>
<th>Happy Daily</th>
<th>Wisdom Daily</th>
<th>Science Daily</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of copies sold</td>
<td>310</td>
<td>260</td>
<td>380</td>
<td>220</td>
<td>80</td>
</tr>
</tbody>
</table>

According to the information in the table above, construct a bar chart and give it a title.
41. Vivian bought a doll with her savings of the last three months.

The following is her record of savings:

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>March</td>
<td>April</td>
<td>May</td>
</tr>
<tr>
<td>$50</td>
<td>$40</td>
<td>$54</td>
</tr>
</tbody>
</table>

What is Vivian’s average monthly savings?
(Show your working)