Year 4 Reasoning Test Set 3 Paper A

1. a) Write the number that is 100 more than 1963.

   

   b) What number is ten less than 1009?

2. Write the 2 missing digits to make this addition correct:

   \[
   \begin{array}{c@{}c@{}c@{}c@{}c}
   2 & \_ & 7 & 3 \\
   + & 1 & 9 & \_ & 8 \\
   \hline
   & 4 & 3 & 8 & 1
   \end{array}
   \]

3. Write these two numbers in numerals, using an appropriate symbol to compare the numbers:

   seven thousand and seventeen  seven thousand and seventy

4. On the grid below draw a horizontal line through point H and a vertical line through point V:
5. Explain how you would calculate the answer to $84 \times 7 =$

6. a) Measure the length of the following line in millimetres:

b) What is the difference between the length of this line and the line above?

7. Write all the factor pairs for the number 28.

8. Complete the following equivalent fractions:

$$\frac{\underline{\phantom{000}}} {100} = \frac{3}{10} = \frac{300}{\underline{\phantom{000}}}$$

9. Circle any number that has a 6 in the hundreds place:

6106 7610 2861 9061 1615
10. Draw all the lines of symmetry on the following shapes:

![Shapes](image)

11. Nina is 34 months old. How old will she be at her next birthday?

12. Joshua buys 2 packets of crisps that cost 85p each. He pays with a £5 note. How much change will he receive?

13. Complete this number line:

| -5 | -2 | -1 | 1 | 2 | 4 |
14. A teacher empties 3 complete packs of pencils into a pot and counts 21 pencils. How many pencils would be in 8 complete packs of pencils?

15. Here are 2 sets of weights. Tick the heavier set.

16. a) Some children record the number of vehicles that pass a school each day. Here is a table of the results. Complete the table and the bar chart.

<table>
<thead>
<tr>
<th>Time</th>
<th>Vehicles</th>
</tr>
</thead>
<tbody>
<tr>
<td>9a.m. - 10a.m.</td>
<td>34</td>
</tr>
<tr>
<td>10a.m. - 11a.m.</td>
<td></td>
</tr>
<tr>
<td>11a.m. - 12p.m.</td>
<td>18</td>
</tr>
<tr>
<td>12p.m. - 1p.m.</td>
<td>25</td>
</tr>
<tr>
<td>1p.m. - 2p.m.</td>
<td>21</td>
</tr>
<tr>
<td>2p.m. - 3p.m.</td>
<td>29</td>
</tr>
</tbody>
</table>
b) Maria says, “The same number of vehicles passed the school before 12p.m. as after 12p.m.”
Explain why Maria is correct.

17. Plot the following points on this coordinates grid to complete the rectangle:

(5,1) (3,3) (7,7) (9,5)
1. a) 2063
   b) 999

2. \( \frac{2473}{1908} = 4 \frac{381}{4381} \)

3. 7017 < 7070 or 7070 > 7017

4. Lines can be any length as long as the intention is clear. 1 mark for both correct.

5. Answer may explain using \( 80 \times 7 \) added to \( 4 \times 7 \). Other options include doubling 3 times and adding 84.

6. a) 108mm
   b) 39mm

7. \( 1 \times 28, 2 \times 14, 4 \times 7 \)

8. \( \frac{30}{100} = \frac{3}{10} = \frac{300}{1000} \)

9. 7610 and 1615

10. 1 mark for each shape correct with 2 lines each.

11. 3 years

12. £3.30

13. -4, -3, 0, 3

14. 56 pencils

15. 1 mark for each correct answer.

16. 1 mark for 2 points correct

17. 1 mark for all correct.