END OF PRIMARY BENCHMARK

2016

SECOND SESSION

MATHEMATICS

WRITTEN PAPER

80 marks

1 hour 30 minutes
1. Work out.

<table>
<thead>
<tr>
<th></th>
<th>a) $385 + 115 = ______</th>
<th>b) $4000 - 264 = ______</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>c) $16 \times 29 = ______</th>
<th>d) $432 \div 18 = ______</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(4 marks)

2. Shade squares to make a symmetrical pattern in the mirror lines.
   For each figure, shade 2 more squares.

   a)
   
   b)

(4 marks)
3. **Tick (✓) always true, sometimes true or never true.**
   The first one is done for you.

<table>
<thead>
<tr>
<th>always</th>
<th>sometimes</th>
<th>never</th>
</tr>
</thead>
<tbody>
<tr>
<td>true</td>
<td>true</td>
<td>true</td>
</tr>
<tr>
<td></td>
<td>sometimes true</td>
<td>never true</td>
</tr>
<tr>
<td></td>
<td>true</td>
<td>true</td>
</tr>
<tr>
<td></td>
<td>sometimes true</td>
<td>never true</td>
</tr>
<tr>
<td></td>
<td>true</td>
<td>true</td>
</tr>
<tr>
<td></td>
<td>sometimes true</td>
<td>never true</td>
</tr>
<tr>
<td>a) A triangle is a shape with 3 sides.</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>b) All the angles in a triangle add up to 180°.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c) A triangle has 1 right angle.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d) A triangle has 4 lines of symmetry.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>e) All the sides in a triangle are equal.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(4 marks)

4. **Fill in with <, > or =.**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>a) 7 tenths</td>
<td>( \frac{7}{10} )</td>
</tr>
<tr>
<td>b) 70%</td>
<td>( \frac{7}{10} )</td>
</tr>
<tr>
<td>c) 0.07</td>
<td>( \frac{7}{10} )</td>
</tr>
<tr>
<td>d) ( \frac{4}{5} )</td>
<td>( \frac{7}{10} )</td>
</tr>
</tbody>
</table>

(4 marks)
5. Look at this grid.
   The **total of each column** and the **total of each row** are equal.
   Complete the grid.

   2  |   | 13
   ---+---+---
   16 | 9 | 6 | 3
   ---+---+---+---
   5  | 4 | 10
   ---+---+---+---
   11 | 14 |

   (5 marks)

6. Look at these shapes.
   What fraction is **shaded**?
   Write all fractions in their **simplest form**.

   a)

   b)

   c)

   (5 marks)
7. In Malta, we use the euro (€) to buy things.
   In England, people use the British pound (£).

a) Look at the graph below and complete the following table.

<table>
<thead>
<tr>
<th>British pound (£)</th>
<th>0</th>
<th>5</th>
<th>10</th>
<th>15</th>
<th>20</th>
<th>25</th>
</tr>
</thead>
<tbody>
<tr>
<td>euro (€)</td>
<td>0</td>
<td>6.50</td>
<td>19.50</td>
<td>32.50</td>
<td>39</td>
<td></td>
</tr>
</tbody>
</table>

b) How many euro (€) are equal to 50 British pounds (£)?

Show your working here.

______ euro

(5 marks)
8. The Vella family goes to the Eurovision Song Contest 2016.

a) The show starts at 21:00.

i) **Show** this time on the clock.

![Clock Image]

ii) The show ends at 00:30.
How **long** is the show?

Show your working here.

______ hours

b) The flight from Sweden to Malta leaves at **15:35**.
The flight is **2 hours 25 minutes long**.
At what time does the plane land in Malta?
Give your answer in **24-hour clock time**.

Show your working here.

_____ : _____

(5 marks)
9. Mario weighed 78.6 kg.
   He went on a holiday and put on some weight.
   His new weight is 81 kg.

   a) Mario gains ______ kg.

   b) Mario wants to weigh 75 kg.
      i) How much weight does he need to lose?

      Show your working here.

      ______ kg

      ii) Mario plans to lose $\frac{3}{4}$ kg every week.
           How many weeks does he need to lose this weight?

      Show your working here.

      _____ weeks

      (5 marks)
10. A charity walk is 10 km long.

a) Tania walks 7.5 km. 
How many more metres does she need to walk to complete the charity walk?

Show your working here.

b) Neil finishes the walk in 1 hour 5 minutes.
Brian finishes the walk in 105 minutes.

i) Who is the fastest? 

ii) Explain your answer by showing the working.
11. All the children in a Year 6 class bought some packets of stickers. The table below shows the number of packets the children bought.

<table>
<thead>
<tr>
<th>No. of packets bought</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of children</td>
<td>4</td>
<td>6</td>
<td>7</td>
<td>4</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

a) How many children are there altogether in this Year 6 class?

_______ children

b) How many children bought more than 2 packets?

_______ children

c) What is the mean (average) number of packets bought?

Show your working here.

_______ packets

d) Each packet has 6 stickers. How many stickers did the children buy in all?

Show your working here.

_______ stickers

(5 marks)
12a) In a class library, there is a total of 126 books. 
For every 3 books in Maltese, there are 4 books in English. 
How many books in Maltese are there?

Show your working here.

________ books in Maltese

b) Ms Katia buys another 46 books in Maltese. 
She does not buy any books in English. 
Ms Katia says that there are now 28 more books in Maltese than in English. 

Explain why Ms Katia is correct.

Show your working here.

(5 marks)
13. A boat trip from Malta to Sicily costs €139 for adults. A child’s ticket costs half the price.

a) How much does the ticket for a child cost?

Show your working here.

€_________

b) John and Anne are taking their three grandchildren to Sicily. How much will they pay for all 5 tickets?

Show your working here.

€_________

c) There is a Special Offer and the family gets a 20% discount. How much do they pay?

Show your working here.

€_________

(6 marks)
14a) Some Year 6 children go on a school outing to a historical site.

There are 168 children from one school and 210 children from another school.

i) How many children go to the historical site?

______ children

ii) Write your answer in words.

______________________________

b) Apart from Year 6 children, there are 320 Year 5 children on the historical site.

How many more Year 6 children than Year 5 children are there?

Show your working here.

______ children

(6 marks)

c) Guides are there to take all children on a tour.

Each guide cannot take more than 30 children.

How many guides are needed?

Show your working here.

______ guides

(6 marks)
15. The area of triangle BCD is 18 cm².

a) What is the area of square ABCD?

Show your working here.  

\[ \text{______ cm}^2 \]

b) What is the length of a side of the square?

Show your working here.  

\[ \text{______ cm} \]

c) Work out the perimeter of the square.

Show your working here.  

\[ \text{______ cm} \]

(6 marks)
16. A to G represent numbers from 0 to 6.

Each letter stands for a different number. 
**Letter G stands for number 5.**

Follow the clues to work out the **value of each letter**.

\[
\begin{align*}
G & + C = G \\
G & \div F = G \\
A & \times B = D \\
D & - B = E
\end{align*}
\]

(6 marks)

**END OF PAPER**