INSTRUCTIONS TO CANDIDATES

• Answer all questions.

• This paper carries a total of 25 marks.

• Calculators and protractors are not allowed.
1  Fill in.
   a)  $3 \text{ kg} = \underline{\quad \text{ grams}}$
   b)  $\underline{\quad \text{ metres}} = 600 \text{ cm}$

   (2 marks)

2  Work out.
   
   $(32 + 8) \times 10$

   
   (2 marks)

3  Complete this table.

<table>
<thead>
<tr>
<th>Fraction</th>
<th>Decimal</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>$\frac{3}{10}$</td>
<td>0.3</td>
<td>25%</td>
</tr>
</tbody>
</table>

   (3 marks)

4  Work out.
   a)  $\€5.75 + \€2.25 = \€\underline{\quad}$
   b)  $\€2.50 \times 4 = \€\underline{\quad}$
   c)  $\€5.00 \div 10 = \underline{\quad} \text{ cent}$

   (3 marks)
5) a) Fill in the **missing numbers**.

   (i) 5, 10, 15, ____, 25

   (ii) 1, 2, 4, 8, ____, 32

b) Draw the **next shape**.

   ![Shape Image]

(3 marks)

6) This football costs **€24**.

   At a **sale** it is sold at **half price**.

   a) Work out the **sale price** of the football.

   € __________

   b) At the sale, Pawlu buys **3 footballs**.

   **How much** does Pawlu pay for the 3 footballs?

   € __________

(4 marks)

7) a) Fill in.

   10% of €500 = €__________

   b) Fill in.

   \[
   \frac{7}{10} - \frac{3}{10} = \frac{2}{10} = \frac{2}{10}
   \]

(4 marks)
8 (a) Work out the **perimeter**.

Perimeter = __________ cm

(b) Work out the **area**.

Area = __________ cm²

(4 marks)
1  a) Underline the correct answer.

The amount of water in the jug is

\[(301 \text{ ml}, \ 310 \text{ ml}, \ 320 \text{ ml})\]

b) Fill in.

\[4 \text{ litres} = \underline{_______} \text{ ml}\]

(2 marks)

2

Fill in.

a) The first lesson begins at _________ past _________.

b) The first lesson is _________ minutes long.

(3 marks)
3. This shape is called a **cuboid**.

   a) Fill in.

   A cuboid has _____ faces, _____ edges and _____ vertices.

   b) Work out the **volume** of the cuboid.

   ![Cuboid Diagram]

   Answer: __________ cm$^3$

   (5 marks)

4. The diagram below shows the **temperatures** in a number of cities.

   ![Temperature Diagram]

   a) Write down the temperatures in

   *Moscow*: __________  
   *Valletta*: __________

   b) Write down the **difference** between the temperature in *Valletta* and the temperature in *Moscow*.

   **Difference**: ______________ °C

   c) The temperature in Milan is −2 °C. Mark this temperature with an **arrow**.

   (5 marks)
5 120 persons were asked to name their favourite fruit. Their answers are shown in the pie chart.

a) Which is the most favourite fruit?

b) What fraction like oranges?

c) How many persons like bananas?

d) A person is chosen at random. What is the probability that the person likes bananas?

6 a) Write down the ratio BALLS : DOLLS.

b) Complete the following ratios.

\[
\begin{align*}
3 : 6 & \rightarrow 1 : \_ \\
2 : 3 & \rightarrow 4 : \_
\end{align*}
\]

c) In a class the ratio of boys : girls is 1 : 3. There are 7 boys. How many girls are there in the class?

_________ girls
7  a) Complete these number machines.

(i)  \[
\begin{array}{c}
15 \\
\times 8 \\
-5
\end{array} \rightarrow \rightarrow \rightarrow \rightarrow
\]

(ii)  \[
\begin{array}{c}
\text{ } \\
-5 \\
18
\end{array} \rightarrow \rightarrow \rightarrow \rightarrow
\]

b) This number machine doubles the input. Complete the function machine.

\[
\begin{array}{c}
\text{Input} \\
\rightarrow \rightarrow \rightarrow \rightarrow \\
\text{Output}
\end{array}
\]

8  Work out the size of the marked angles.

\[
\begin{array}{c}
a \\
140^\circ
\end{array}
\]

\[
\begin{array}{c}
c \\
74^\circ
\end{array}
\]

\[
\begin{array}{c}
b \\
140^\circ
\end{array}
\]

\[
a = \underline{\hspace{2cm}} \quad b = \underline{\hspace{2cm}} \quad c = \underline{\hspace{2cm}}
\]

(6 marks)
9  
   a) **Underline** the **bigger** quantity.

   \( \frac{1}{4} \text{ of } €84 \) OR \( \text{half of } €50 \)

   By how much is it bigger?

   €________

   b) Write in order, **largest first**.

   1.8, 0.8, 18,

   ________, ________, ________

   (7 marks)

10  
   a) Find the value of \( x \).

   \( x = \) ________ kg

   b) (i) This LOGO statement draws a letter of the alphabet. Draw a sketch of the letter.

      \[ \text{PD FD 100 LT 90 FD 50 BK 100} \]

   (ii) Complete this LOGO statement to draw a **square**.

      \[ \text{PD REPEAT } ____ \text{ [FD 80 RT } ____ \text{ ]} \]

   (6 marks)
11 The following are the shoe sizes of pupils in a class.

4  4  4  5  5  5  5  5  5  5  5  5  5  5  6  6  6  6  6  6  6  6  6  6
6  6  6  7  7  7  7  8  8

a) Complete the frequency table.

<table>
<thead>
<tr>
<th>Shoe size</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
</tr>
</tbody>
</table>

b) Fill in.

Largest size = __________

Median = __________

Mode = __________

Range = __________

(9 marks)
12  a) Write down the **coordinates** of point P. (   ,   )

b) **Plot** the points (4, 5) and (8, 1).

c) **Draw** a **line** passing through all the 3 points.

d) Fill in the missing numbers **below**.

(2, 3) (3, 4), (4, ____), (5, 6), (6, ____)

e) **Plot** the points.

f) **Join the points** with a **straight line**.

(8 marks)
13 a) **Draw** all the **lines of symmetry** of this shape.

b) **Reflect** the shape in the **mirror lines**.

c) **Draw** the triangle after a **translation** of **4 to the right** and **5 up**.

d) (i) The picture shows the net of a (**cube, cuboid, pyramid**).

   (ii) All the **faces** of a **cube** are (**triangles, rectangles, squares**).