### INSTRUCTIONS TO CANDIDATES

- Answer all questions.
- This paper carries a total of 20 marks.
- Calculators and protractors are NOT ALLOWED.
<table>
<thead>
<tr>
<th>No.</th>
<th>QUESTION</th>
<th>SPACE FOR WORKING (IF REQUIRED)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Write down the smallest number:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A) 134  B) 1435  C) 14  D) 1320</td>
<td>Answer: __________</td>
</tr>
<tr>
<td>2.</td>
<td>Four cinema tickets cost €24. How much do six tickets cost?</td>
<td>Answer: €___________</td>
</tr>
<tr>
<td>3.</td>
<td>Write down the output of this number machine in the empty box.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>![Number machine diagram]</td>
<td>Answer: ________</td>
</tr>
<tr>
<td>4.</td>
<td>Solve: $5x + 5x = 20$</td>
<td>Answer: __________</td>
</tr>
<tr>
<td>5.</td>
<td>Work out the mean of the following numbers:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>15  25  25  15  20</td>
<td>Answer: _______________________</td>
</tr>
<tr>
<td>6.</td>
<td>Fill in the box:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>$\frac{18}{30} = \frac{_}{5}$</td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Fill in the missing number:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>15  18  ____  24  27</td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>One of these numbers is a prime number. Which one is it?</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A) 190  B) 19  C) 27  D) 125</td>
<td>Answer: __________</td>
</tr>
</tbody>
</table>
9. What is the area of the triangle? (Each square is 1 cm by 1 cm.)

<table>
<thead>
<tr>
<th>Grid Area</th>
<th>Answer: _______ cm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Diagram of a triangle with grids]</td>
<td></td>
</tr>
</tbody>
</table>

10. Adrian got 12 marks more than Paul in the English test. If Paul’s mark is 27, what is Adrian’s mark?

<table>
<thead>
<tr>
<th>Option</th>
<th>Mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>A) 39</td>
<td></td>
</tr>
<tr>
<td>B) 18</td>
<td></td>
</tr>
<tr>
<td>C) 15</td>
<td></td>
</tr>
<tr>
<td>D) 50</td>
<td></td>
</tr>
</tbody>
</table>

Answer: _______

11. Translate the shape shown by 5 units to the right and 3 units up.

12. Find the size of $x$:

$$200° \quad x \quad 110°$$

Answer: ______°

13. A box contains 5 red marbles and 15 blue marbles. What is the probability that I pick a red marble?

Answer: _______

14. A line has the equation $y = 2 + 2x$.

When $x = 3$, $y = _______$. 

| Diagram of a line with angles | Answer: _______
|------------------------------|------------------|
15. Simplify:

\[ 2p + q - p + 3q = \] _________________

16. The side of each cube is 1 cm long. What is the volume of the shape?

Answer: _______cm³

17. The line AB is a line of symmetry of the shape shown. Complete the shape about the line of symmetry AB.

18. A stone weighs 2.36 kg. What is its weight in grams?

A) 236 B) 23600 C) 0.236 D) 2360

Answer: _________ g

19. The table below shows the number of people who applied for a job in a company:

<table>
<thead>
<tr>
<th></th>
<th>April</th>
<th>May</th>
<th>June</th>
<th>July</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
<td>5</td>
<td>2</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete the bar graph.

20. The turtle starts from the position shown. Sketch the figure drawn by the turtle for this set of LOGO commands:

PD FD 100 RT 90 FD 50 RT 90 FD 100
1. (a) Work out the following:

\[545 - 415 + 657 = \] 

(b) Two of the following numbers lie between \(\frac{1}{5}\) and \(\frac{9}{10}\).

\[2 \frac{1}{2}, \quad 3 \frac{3}{4}, \quad 1, \quad \frac{4}{5}\]

The numbers are _________ and _________.

(4 marks)

2. (a) Simplify the ratios

(i) 12:15  

Answer: ____________________

(ii) 15:25  

Answer: ____________________

(b) Write down the number 28,200 in words.

_________________________________________________________________

(4 marks)
3. (a) Write \(2.567 \times 10^4\) as an ordinary number.

Answer: ____________________

(b) Fill in: \(2 \times 2 \times 2 = 2\) \[\square\]

(c) How many days are there from the 25\(^{th}\) of March to the 1\(^{st}\) of May?

Answer: _______________ days

(d) What is \(\frac{3}{5}\) of 25?

Answer: __________

(4 marks)

4. A closed box is in the shape of a cuboid.

(a) Work out the volume of the box.

Answer: __________ cm\(^3\)

(b) Below is shown part of the net of the box. Complete the net.

(c) How many of these boxes can fit in the open box A?

Answer: __________

(6 marks)
5. (a) The sum of the angles in a quadrilateral is _______°.

(b) Calculate the value of angle $x$.

\[ x = \text{?}° \]

(4 marks)

6. (a) My water and electricity bill is €2440 this year. It is €240 more than last year’s.

(i) What was last year’s bill?

Answer: €___________

(ii) I paid $\frac{3}{4}$ of this year’s total bill for electricity. How much did I pay?

Answer: €___________

(b) (i) Express 2357 to the nearest ten: ______________.

(ii) Work out: $-244 - 56 = ________$.  

(c) Calculate 20% of 360 m.

Answer: ________ m

(8 marks)
7. (a) A film starts at 8:30 pm. It ends at 11:15 pm. How long is the film?

Answer: _______ hours _______ minutes

(b) A car costs €4500. I pay €2000.

   (i) How much do I still have to pay?

Answer: €___________

   (ii) I pay the rest of the money in equal sums for five months. How much do I pay each month?

Answer: €___________

   (6 marks)

8. (a) Complete the following sequence:

   4   10   16   ____   28   ____

(b) Change 6152 g into kilograms.

   Answer: ____________ kg

(c) *Fill in with less or greater.*

   3894 m is ________________ than 4.32 km.

   (4 marks)
9. (a) Solve the equations:

(i) \(4x - 6 = 2\)

Answer: __________

(ii) \(3x + 1 = 10\)

Answer: __________

(b) Expand

\[3(x - 5)\]

Answer: __________

(6 marks)

10. (a) In a box there are 4 white, 10 black and 6 yellow counters. I pick a counter at random.
The statements below are either true or false. Tick the correct answer.

(i) The probability that I pick a black counter is \(\frac{1}{2}\). [True] [False]

(ii) The probability that I pick a white counter is 0. [True] [False]

(iii) The probability that I pick a yellow counter is 1. [True] [False]

(b) A **fair** coin is tossed 100 times. Estimate the number of times the coin shows a Head.

Answer: __________

(4 marks)
11. (a) A garden has the shape shown. In the triangle AB = BC.

(i) What is the triangle ABC called? Choose the correct answer.

- scalene
- right-angled triangle
- isosceles

(ii) Calculate the area of the triangle.

Answer: __________ m²

(iii) Calculate the area of the rectangle.

Answer: __________ m²

(iv) What is the total area of the garden?

Answer: __________ m²

(b) One of the nets shown is that of a cube. Which one is it? Tick the correct answer.

- A
- B
- C

(8 marks)
12. The table shows the number of cars sold in four towns in 2011.

<table>
<thead>
<tr>
<th>City</th>
<th>Paola</th>
<th>Cospicua</th>
<th>Sliema</th>
<th>Msida</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Cars Sold</td>
<td>30</td>
<td>40</td>
<td>100</td>
<td>50</td>
</tr>
</tbody>
</table>

(a) Use the table to complete the following bar chart.

(b) What is the total number of cars?

Answer: __________

(c) What is the ratio of the number of cars sold in Cospicua to the number of cars sold in Sliema? Express the ratio in its simplest form.

Answer: __________

(8 marks)
13. (a) Mark the points \((-2, -2)\) and \((2, 1)\) on the grid.

(b) Draw the line passing through these two points.

(c) Use your graph to complete the following pairs of coordinates:

\((-6, \underline{\quad})\)

\((\underline{\quad}, 4)\)
14. (a) (i) A is translated to B by moving

_________ units to the left and _________ units up.

(ii) Draw the translation of B given by the following:

Move B 8 units to the right and 2 units down.

(b) The following are my cousins’ ages:

5 12 11 10 26 18 23

(i) What is their mean age?

Answer: __________ years

(ii) What is the median?

Answer: __________ years

(8 marks)