SECONDARY SCHOOL ANNUAL EXAMINATIONS 2010
Directorate for Quality and Standards in Education
Educational Assessment Unit

FORM 1 MATHEMATICS SCHEME D TIME: 30 minutes
Non-Calculator Paper

Name: _____________________________________ Class: _______________

<table>
<thead>
<tr>
<th>Question</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
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<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>Total</th>
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<tbody>
<tr>
<td>Mark</td>
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Instructions to Candidates

- Answer all questions.
- This paper carries a total of 25 marks.
- Calculators and protractors are not allowed.
1. Write down a number that lies between:

   Example: 14 15 16

   a) 121 [__] 123

   b) 738 [__] 740

   c) 89 [__] 91

   (3 marks)

2. 

   Example: Multiply by10 by 100

<table>
<thead>
<tr>
<th></th>
<th>by10</th>
<th>by 100</th>
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</thead>
<tbody>
<tr>
<td>7</td>
<td>70</td>
<td>700</td>
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<td>9</td>
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<td>16</td>
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<td>48</td>
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<tr>
<td>96</td>
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   (4 marks)

3. Find one half of:

   Example: 8 is ___

   a) 18 is ___

   b) 80 is ___

   c) 90 is ___

   (3 marks)
4. **Example:** \(14 \div 2 = 7\)

a) \(24 \div 2 = \) __________

b) \(35 \div 5 = \) __________

c) \(60 \div 10 = \) __________  

(3 marks)

5. Complete:

a) \(€2\) 50c 5c 1c

\(€2.56 = \) ________ cent

b) \(€5\) 20c 10c 2c

\(€5.32 = \) ________ cent

(2 marks)
6. Fill in.

\[
\begin{array}{c}
38 \quad +4 \quad -5 \quad \boxed{ } \\
\end{array}
\]

(2 marks)

7. a) Line AB is ________ cm long.

b) Line AB is ________ mm long.

(2 marks)

8. The two apples together weigh ________ grams.

(2 marks)
9. Put the arrow on the probability scale to make this statement true:

In Malta it rains in December.

(1 mark)

10. The perimeter of this shape is ___________ cm.

(3 marks)
Name: ___________________________ Class: ____________

- Answer all questions.
- This paper carries 75 marks.
- Calculators and mathematical instruments are allowed but all necessary working must be shown.

CALCULATORS ARE ALLOWED

ANSWER ALL QUESTIONS

1. Write these numbers in figures

Example: nine

a) eighteen

b) eighty-five

c) seven hundred ninety-three

(3 marks)
2. Put these numbers in order, **biggest** first.

   58,  85,  87,  56,  65.

   ____________________________________________
   (3 marks)

3. Write these numbers correct to the nearest 10.

<table>
<thead>
<tr>
<th>Number</th>
<th>Nearest 10</th>
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<tbody>
<tr>
<td>Example: 84</td>
<td>→ 80</td>
</tr>
<tr>
<td>a) 39</td>
<td>→</td>
</tr>
<tr>
<td>b) 51</td>
<td>→</td>
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<tr>
<td>c) 76</td>
<td>→</td>
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</tbody>
</table>

   ____________________________________________
   (3 marks)

4. Work out:

   a) \[ 56 + 34 = (56 + 30) + \square = \square \]

   b) \[ 93 - 41 = (93 - 40) - \square = \square \]

   ____________________________________________
   (4 marks)
5. **Example:** \( 48 \times 5 = (40 \times 5) + (8 \times 5) = 240 \)

\[
34 \times 2 = (30 \times \square) + (\square \times 2) = \square
\]

(3 marks)

6. Look at these facts:

\( 36 \times 4 = 144 \) and \( 8.3 + 6.7 = 15 \)

**Complete:**

\( 144 \div 4 = \square \) and \( 15 - 6.7 = \square \)

(2 marks)

7. Mark these fractions on the number line:

**Example:** \( \frac{1}{2} \)

a) \( \frac{3}{10} \)

b) \( \frac{4}{5} \)

(2 marks)
8. Ryan goes to a pet shop. He buys these objects.

<table>
<thead>
<tr>
<th>Working</th>
<th>Cost</th>
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<tbody>
<tr>
<td>4 tins of dogfood at €0.25 each</td>
<td></td>
</tr>
<tr>
<td>2 packs of birdseed at 45c each</td>
<td></td>
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<tr>
<td>1 toy for cat at €2.30</td>
<td>€2.30</td>
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TOTAL

**Complete the bill above.**

(7 marks)

9. a) Look at the numbers on the number line. **Draw** a circle around all the **odd** numbers.

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b) i) Write the next two terms of this sequence:

11, 13, 15, ____, ____.

ii) The rule for the above sequence is:

Start with 11. Then ________________.

(8 marks)
10. This is the calendar for July 2009.

<table>
<thead>
<tr>
<th>Sunday</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
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</table>

a) There are _______ days in July.

b) 2\textsuperscript{nd} July was a Thursday and 15\textsuperscript{th} July was a ________.

c) There were _______ Thursdays in July 2009.

(3 marks)
11.

a) Fill in the two boxes above using:
   \((x\text{-axis}; \text{slanting}; \text{right-angle}; y\text{-axis})\)

b) Plot these points on the grid:
   \((A(1,1), B(1,6), C(5,6) \text{ and } D(5,1))\).

c) Join \(A\) to \(B\), \(B\) to \(C\), \(C\) to \(D\) and \(D\) to \(A\).

d) Fill in:

   The shape I have drawn is a ________________.
12. Each square is of side 1 cm.

**Complete:**

a) The area of shape **A** is ______ cm².

b) The area of shape **B** is ______ cm².

c) The area of shape **C** is ______ cm².

____________________________________________________ (3 marks)
13. a) Mark the **right angles** of this shape.

b) Mark the **obtuse angles** of these shapes.

(6 marks)
14. This is a board game.

\[ \begin{array}{ccc} 
7 & 8 & 9 \\
6 & 5 & 4 \\
1 & 2 & 3 
\end{array} \]

a) You are on square number 1.

You move 1 square to the right; then 2 squares up and 1 square to the left.

You arrive on square number \(5, 6, 7, 8\).

b) Tony typed the following \texttt{LOGO} commands:

\texttt{PD RT90 FD 100 LT90 FD 50}.

Draw the pattern the turtle follows.

(7 marks)
15. a) Put a tick in the shapes to show which of them have **one or more** line(s) of symmetry.

b) i) **Construct** a circle of radius 3 cm.

   ii) On your circle **mark** and **label** a radius.

(6 marks)
16. In a class, there are 6 students who like pizza, 5 who like hotdogs, 3 who like hamburgers and 4 who like sandwiches.

a) Draw this information on the bar chart below.

b) Which food is liked most? ___________________________

c) Which food is liked least? ___________________________

d) Each student chose only one type of food. How many students are there in this class?

____________________________

(7 marks)