

**SECONDARY SCHOOL ANNUAL EXAMINATIONS 2010**

Directorate for Quality and Standards in Education  
Educational Assessment Unit



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**FORM 1**

**MATHEMATICS SCHEME D**

**TIME: 30 minutes**

**Non-Calculator Paper**

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Name: \_\_\_\_\_

Class: \_\_\_\_\_

|          |          |          |          |          |          |          |          |          |          |           |              |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|--------------|
| Question | <b>1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> | <b>9</b> | <b>10</b> | <b>Total</b> |
| Mark     |          |          |          |          |          |          |          |          |          |           |              |

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**Instructions to Candidates**

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

**Example:** 14  16

a) 121  123

b) 738  740

c) 89  91

(3 marks)

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2.

**Example:**

| Multiply | by10 | by 100 |
|----------|------|--------|
| 7        | 70   | 700    |
| 9        |      |        |
| 16       |      |        |
| 48       |      |        |
| 96       |      |        |

(4 marks)

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3. Find **one half** of:

**Example:** 8 is 4

a) 18 is \_\_\_\_\_

b) 80 is \_\_\_\_\_

c) 90 is \_\_\_\_\_

(3 marks)

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Name : \_\_\_\_\_

Class : \_\_\_\_\_

D

4. Example:  $14 \div 2 = \underline{7}$

a)  $24 \div 2 = \underline{\quad}$

b)  $35 \div 5 = \underline{\quad}$

c)  $60 \div 10 = \underline{\quad}$

(3 marks)

5. Complete:

a)



€2



50c



5c



1c

€2.56 = \_\_\_\_\_cent

b)



€5



20c



10c

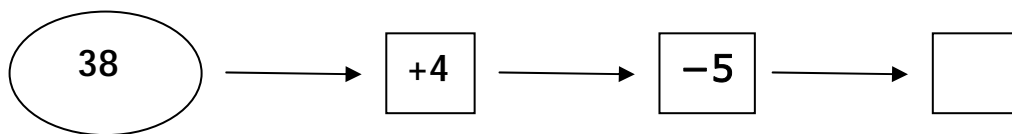


2c

€5.32 = \_\_\_\_\_cent

(2 marks)

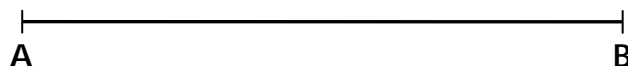
6. Fill in.



(2 marks)

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7.



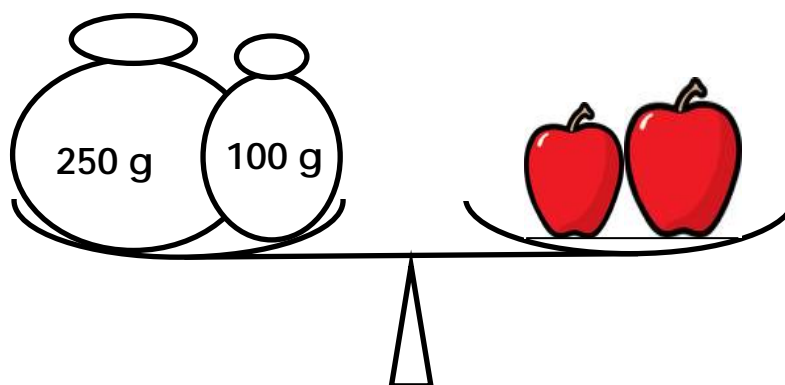
a) Line AB is \_\_\_\_\_ cm long.

b) Line AB is \_\_\_\_\_ mm long.

(2 marks)

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8.



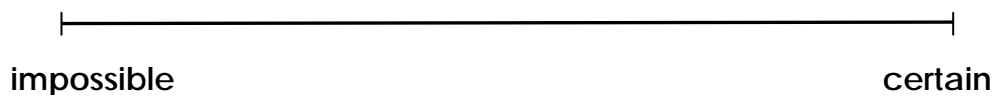
The two apples together weigh \_\_\_\_\_ grams.

(2 marks)

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9. Put the arrow  on the probability scale to make this statement true:

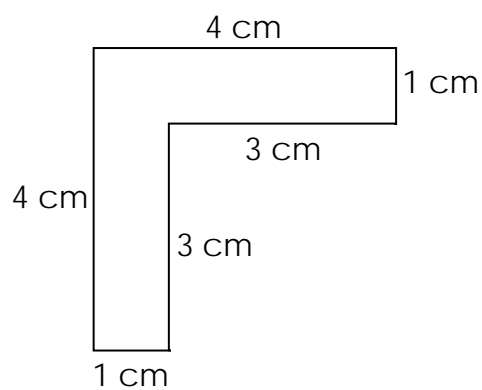
**In Malta it rains in December.**



( 1 mark)

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- 10.



The **perimeter** of this shape is \_\_\_\_\_ cm.

(3 marks)

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2. Put these numbers in order, **biggest** first.

58, 85, 87, 56, 65.

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(3 marks)

3. Write these numbers **correct to the nearest 10**.

|                 | Number |        | Nearest 10 |
|-----------------|--------|--------|------------|
| <b>Example:</b> | 84     | —————→ | <u>80</u>  |
| a)              | 39     | —————→ | _____      |
| b)              | 51     | —————→ | _____      |
| c)              | 76     | —————→ | _____      |

(3 marks)

4. Work out:

a)  $56 + 34 = (56 + 30) + \square = \square$

b)  $93 - 41 = (93 - 40) - \square = \square$

(4 marks)

Name : \_\_\_\_\_

Class : \_\_\_\_\_

**D**

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:

$$36 \times 4 = 144 \quad \text{and} \quad 8.3 + 6.7 = 15$$

**Complete:**

$$144 \div 4 = \square \quad \text{and} \quad 15 - 6.7 = \square$$

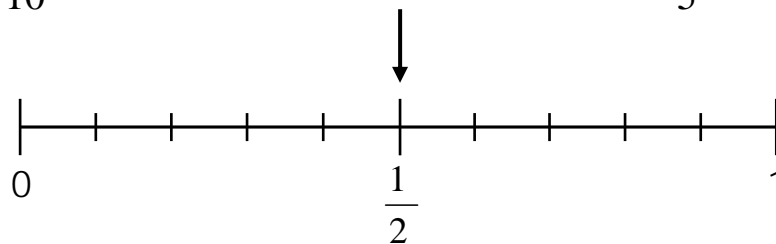
(2 marks)

7. Mark these fractions on the number line:

**Example:**  $\frac{1}{2}$

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

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



(2 marks)



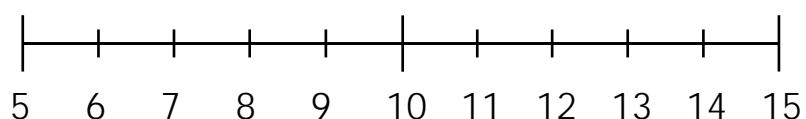
8. Ryan goes to a pet shop. He buys these objects.

|                                 | Working      | Cost |
|---------------------------------|--------------|------|
| 4 tins of dogfood at €0.25 each |              |      |
| 2 packs of birdseed at 45c each |              |      |
| 1 toy for cat at €2.30          | €2.30        |      |
|                                 | <b>TOTAL</b> |      |

Complete the bill above.

(7 marks)

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



- 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)

Name : \_\_\_\_\_

Class : \_\_\_\_\_

D

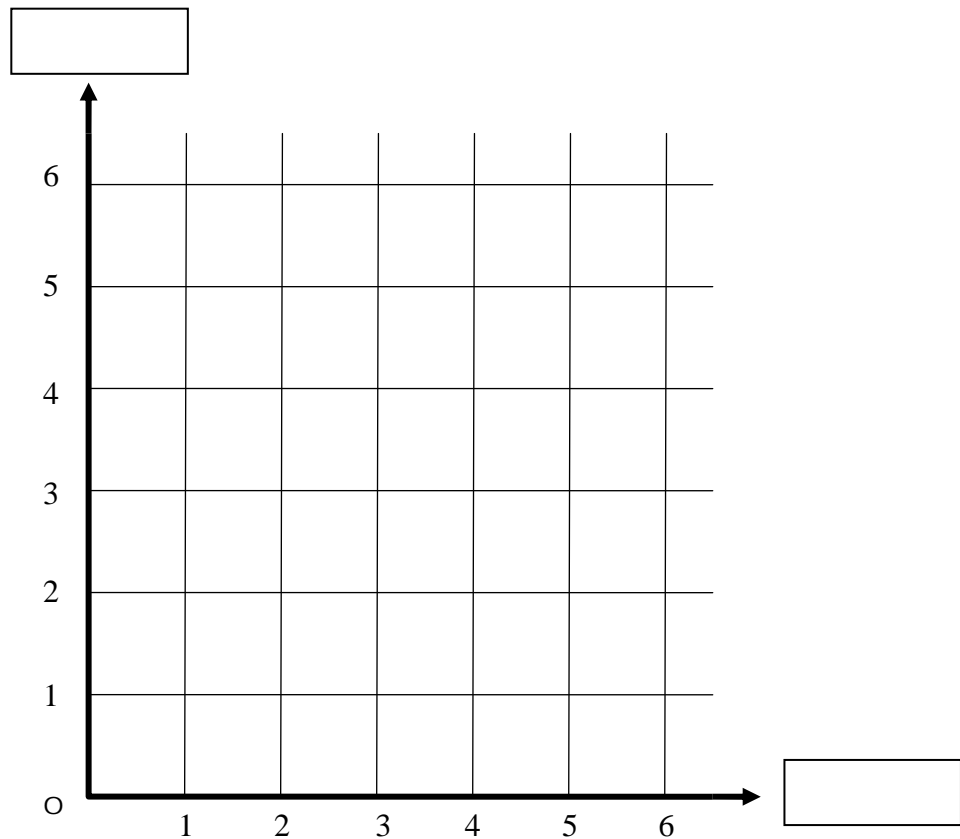
10. This is the calendar for July 2009.

| July 2009 |           |           |           |           |           |           |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Sunday    | Monday    | Tuesday   | Wednesday | Thursday  | Friday    | Saturday  |
| <u>28</u> | <u>29</u> | <u>30</u> | <u>1</u>  | <u>2</u>  | <u>3</u>  | <u>4</u>  |
| <u>5</u>  | <u>6</u>  | <u>7</u>  | <u>8</u>  | <u>9</u>  | <u>10</u> | <u>11</u> |
| <u>12</u> | <u>13</u> | <u>14</u> | <u>15</u> | <u>16</u> | <u>17</u> | <u>18</u> |
| <u>19</u> | <u>20</u> | <u>21</u> | <u>22</u> | <u>23</u> | <u>24</u> | <u>25</u> |
| <u>26</u> | <u>27</u> | <u>28</u> | <u>29</u> | <u>30</u> | <u>31</u> | <u>1</u>  |

- a) There are \_\_\_\_\_ days in July.
- b) 2<sup>nd</sup> July was a Thursday and 15<sup>th</sup> July was a \_\_\_\_\_.
- c) There were \_\_\_\_\_ Thursdays in July 2009.

(3 marks)

11.

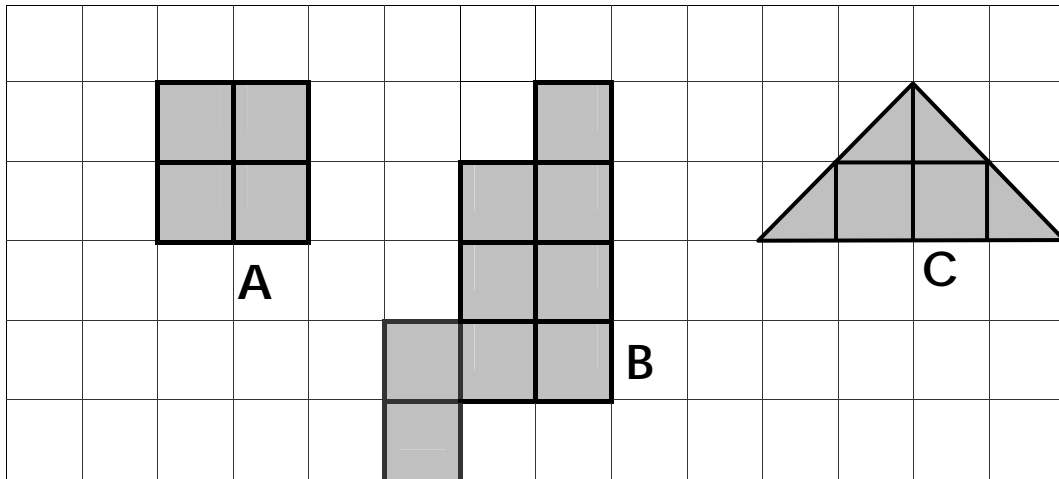


- a) Fill in the two boxes **above** using:  
(x-axis; slanting; right-angle; y-axis)
  
- b) Plot these points on the grid:  
**A(1,1), B(1,6), C(5,6) and D(5,1).**
  
- c) Join **A** to **B**, **B** to **C**, **C** to **D** and **D** to **A**.
  
- d) Fill in:

The shape I have drawn is a \_\_\_\_\_.

(8 marks)

12. Each square is of side 1 cm.



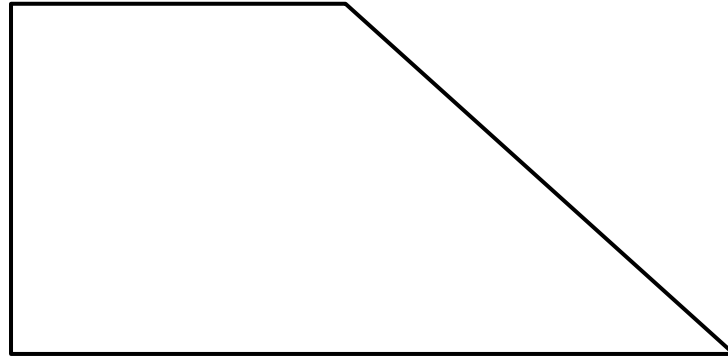
**Complete:**

- a) The area of shape **A** is \_\_\_\_\_  $\text{cm}^2$ .
- b) The area of shape **B** is \_\_\_\_\_  $\text{cm}^2$ .
- c) The area of shape **C** is \_\_\_\_\_  $\text{cm}^2$ .

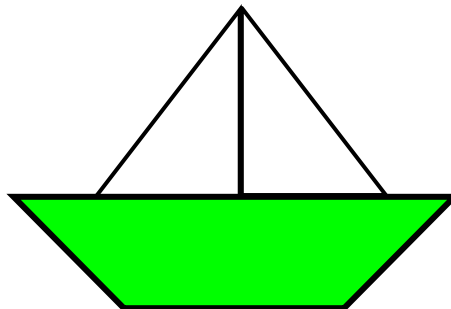
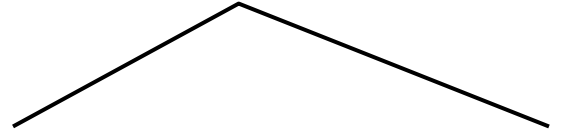
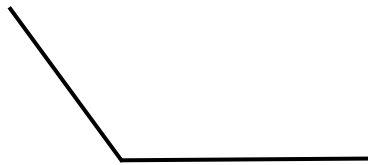
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(3 marks)

13. a) Mark the **right angles** of this shape.



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



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(6 marks)

14. This is a board game.

|   |   |   |
|---|---|---|
| 7 | 8 | 9 |
| 6 | 5 | 4 |
| 1 | 2 | 3 |

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 **LOGO** commands:

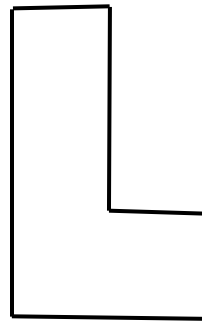
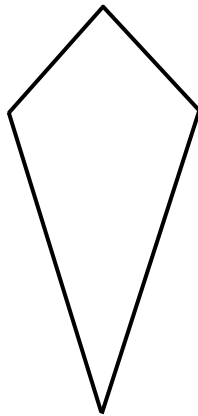
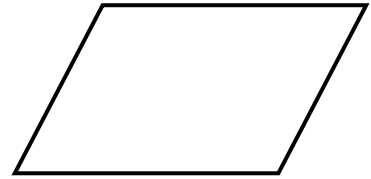
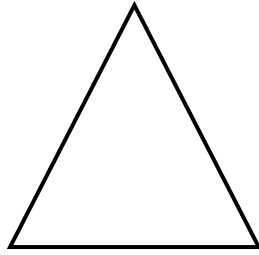
**PD RT 90 FD 100 LT 90 FD 50.**

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.



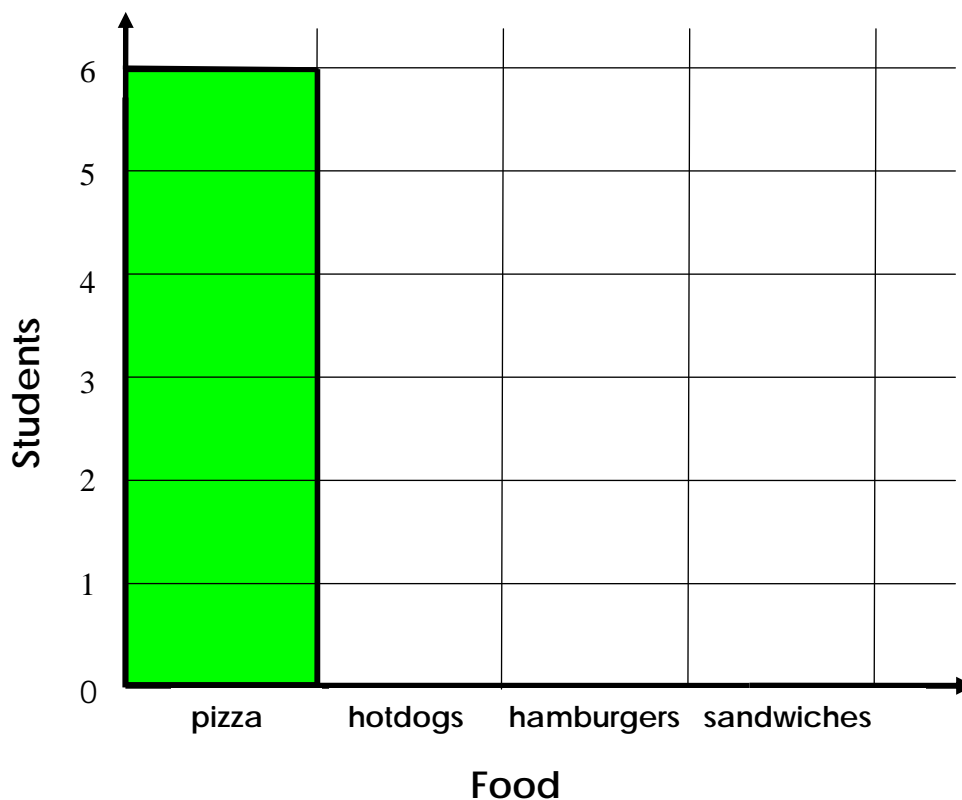
- b) i) **Construct** a circle of radius 3 cm.

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)

**END OF PAPER**