

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: _____

Question	1	2	3	4	5	6	7	8	9	10	Total
Mark											

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
7	70	700
9		
16		
48		
96		

(4 marks)

3. Find **one half** of:

Example: 8 is 4

a) 18 is

b) 80 is

c) 90 is

(3 marks)

Name : _____

Class : _____

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

a) $24 \div 2 = \underline{\hspace{2cm}}$

b) $35 \div 5 = \underline{\hspace{2cm}}$

c) $60 \div 10 = \underline{\hspace{2cm}}$

(3 marks)

5. Complete:

a)



€2



50c



5c



1c

€2.56 = _____cent

b)



€5



20c



10c

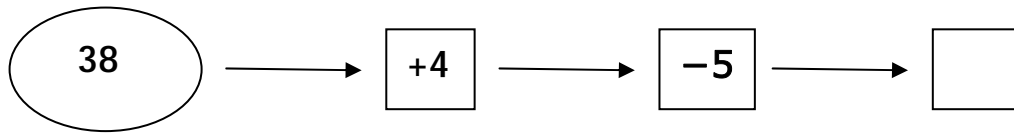


2c

€5.32 = _____cent

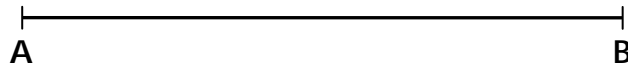
(2 marks)

6. Fill in.



(2 marks)

7.

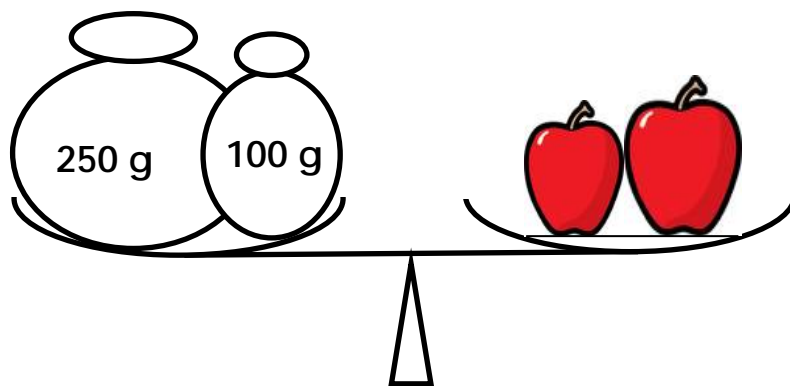


a) Line AB is _____ **cm** long.

b) Line AB is _____ **mm** long.


(2 marks)

8.

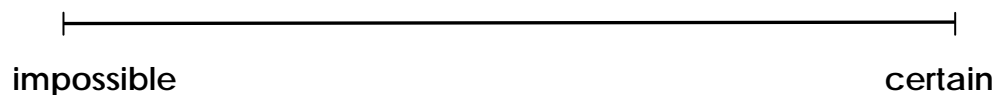


The two apples together weigh _____ grams.

(2 marks)

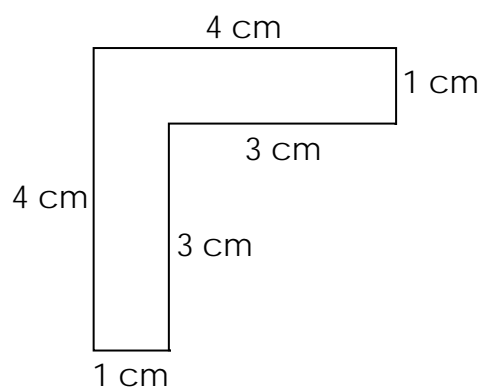
9. Put the arrow  on the probability scale to make this statement true:

In Malta it rains in December.



(1 mark)

10.



The **perimeter** of this shape is _____cm.

(3 marks)

SECONDARY SCHOOL ANNUAL EXAMINATIONS 2010

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FORM 1

MATHEMATICS SCHEME D

TIME: 1h 30min

Main Paper

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Total Main	Non Calculator	Global Mark
Mark																			

DO NOT WRITE ABOVE THIS LINE

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

9

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**.

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

(3 marks)

4. Work out:

a) $56 + 34 = (56 + 30) + \boxed{} = \boxed{}$

b) $93 - 41 = (93 - 40) - \boxed{} = \boxed{}$

(4 marks)

Name : _____

Class : _____

5. **Example:** $48 \times 5 = (40 \times 5) + (8 \times 5) = 240$

$$34 \times 2 = (30 \times \boxed{}) + (\boxed{} \times 2) = \boxed{}$$

(3 marks)

6. Look at these facts:

$$36 \times 4 = 144$$

$$\text{and} \quad 8.3 + 6.7 = 15$$

Complete:

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

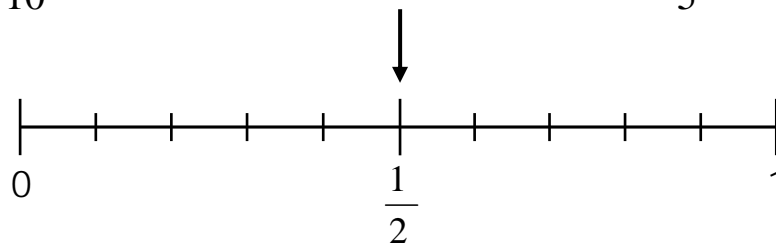
(2 marks)

7. Mark these fractions on the number line:

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

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

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



(2 marks)

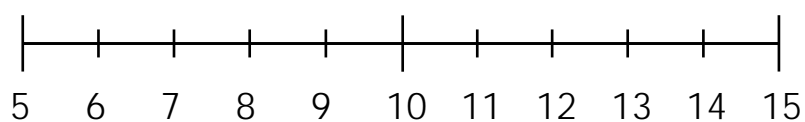
8. Ryan goes to a pet shop. He buys these objects.

	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	
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.



- 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 : _____

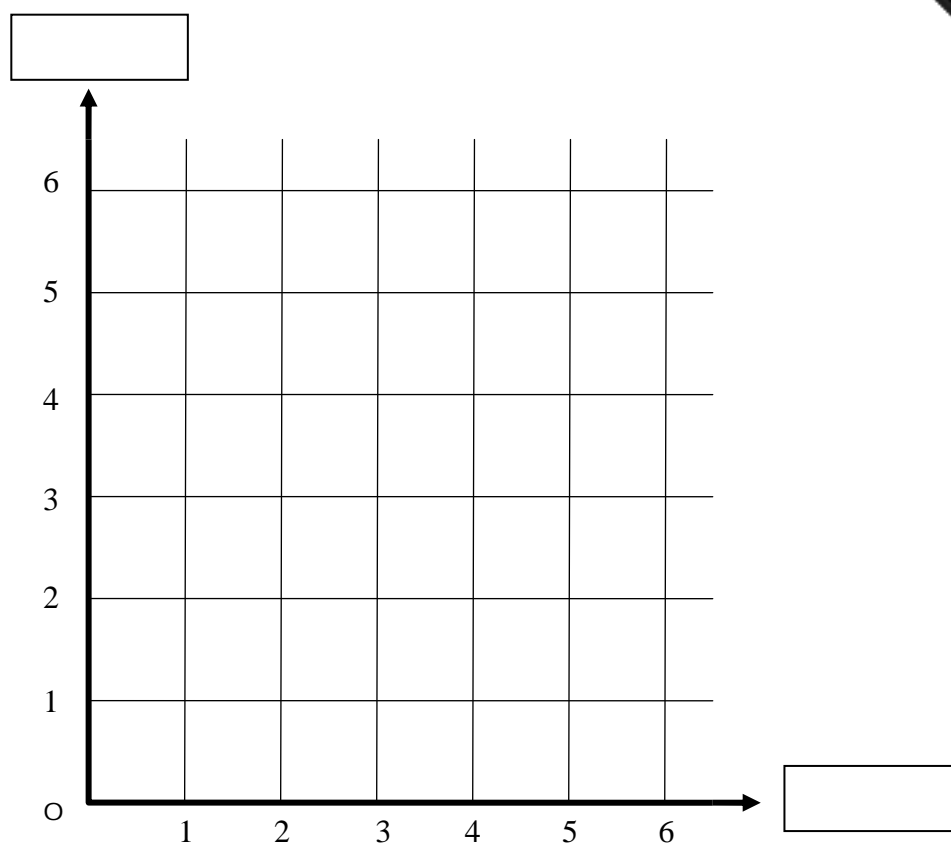
10. This is the calendar for July 2009.

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) 2nd July was a Thursday and 15th July was a _____.
- c) There were _____ Thursdays in July 2009.

(3 marks)

11.

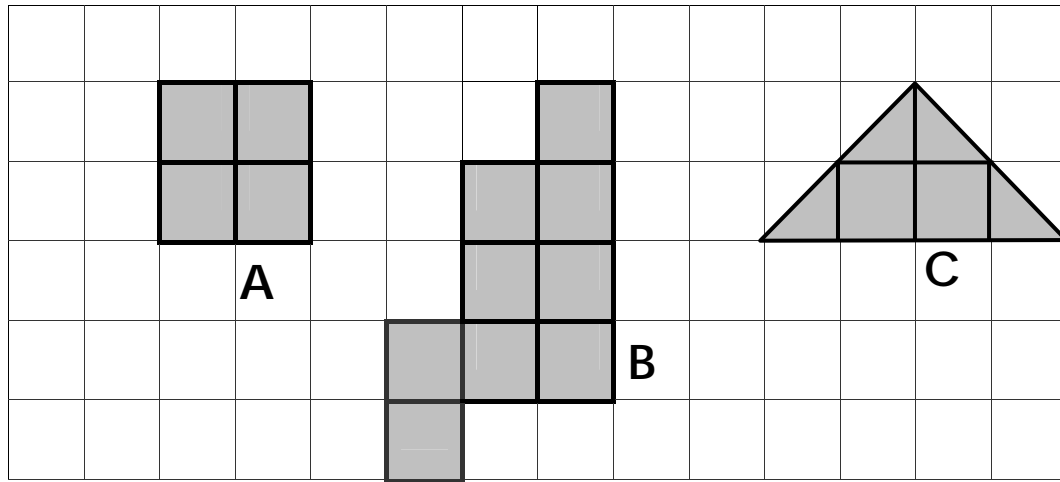


- Fill in the two boxes **above** using:
(x-axis; slanting; right-angle; y-axis)
- Plot these points on the grid:
A(1,1), **B**(1,6), **C**(5,6) and **D**(5,1).
- Join **A** to **B**, **B** to **C**, **C** to **D** and **D** to **A**.
- Fill in:

The shape I have drawn is a _____.

(8 marks)

12. Each square is of side 1 cm.

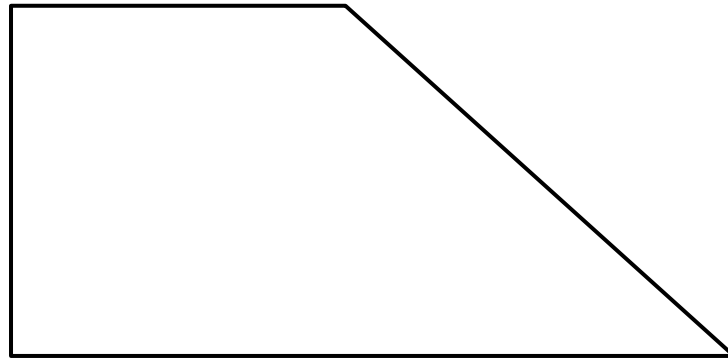


Complete:

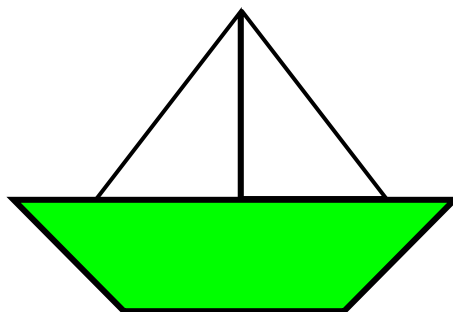
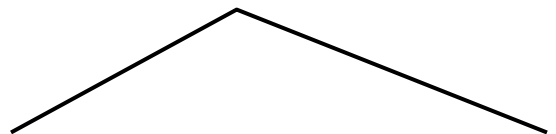
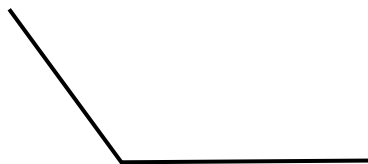
- The area of shape **A** is _____ cm^2 .
- The area of shape **B** is _____ cm^2 .
- The area of shape **C** is _____ cm^2 .

(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.

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:

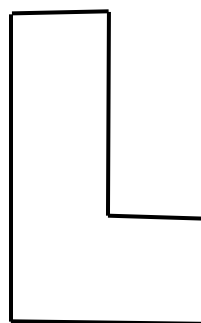
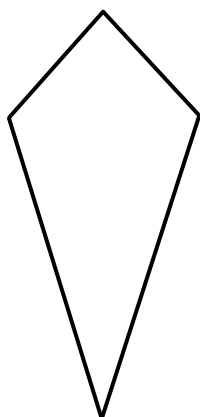
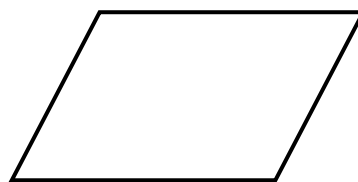
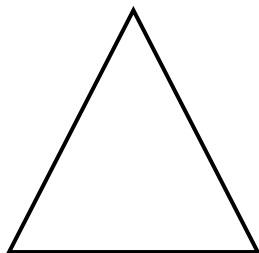
PD RT 90 FD 100 LT 90 FD 50.

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.



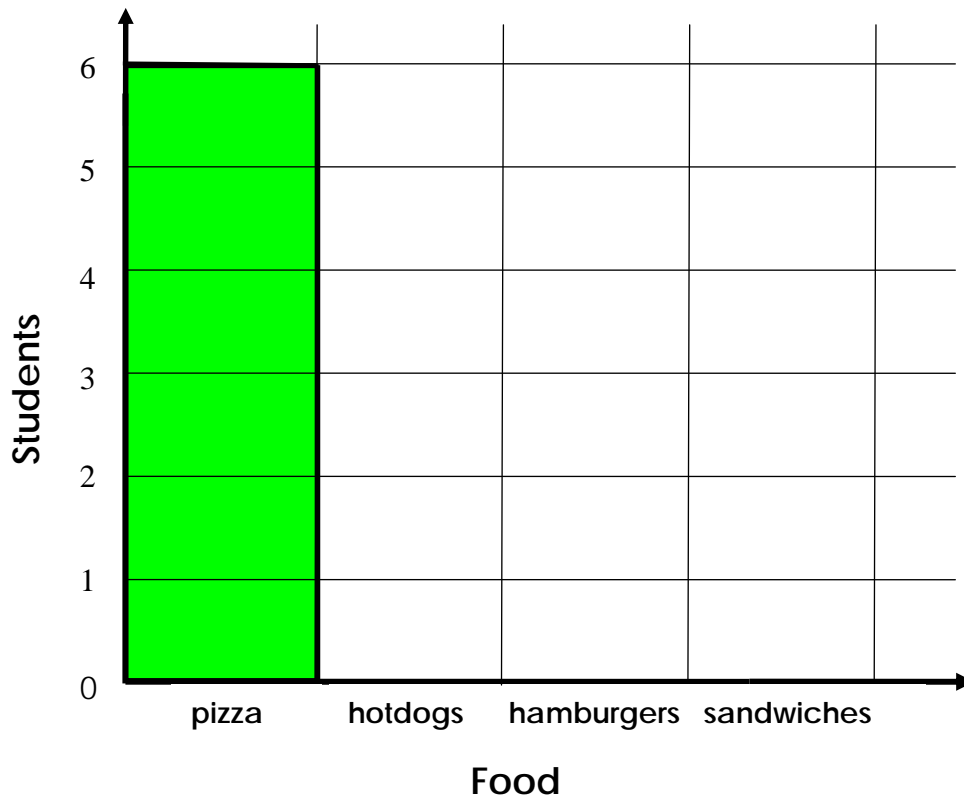
- b) i) **Construct** a circle of radius 3 cm.

- 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