SECONDARY SCHOOL ANNUAL EXAMINATIONS 2010

Directorate for Quality and Standards in Education Educational Assessment Unit

1	7

FORM 3	3		MAT	TIME: 30 minute						
Name:									Class:	
	1	2	3	4	5	6	7	8	Total	

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 kg** = ____ grams

b) _____ metres = 600 cm

(2 marks)

2 Work out.

$$(32 + 8) \times 10$$

(2 marks)

3 Complete this table.

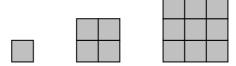
Fraction	Decimal	Percentage
3 10	0.3	
		25%

(3 marks)

4 Work out.

(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**.



(3 marks)

- 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)

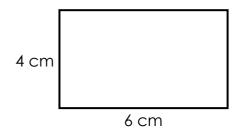
7 a) Fill in.

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 = ____
$$cm^2$$

(4 marks)

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FORM 3

MATHEMATICS SCHEME D MAIN PAPER

TIME: 1h 30min

1	2	3	4	5	6	7	8	9	10	11	12	13	NC	Main	Total

Name: _____

Class: ___

Calculators are allowed but the necessary working must be shown.

Answer all questions.

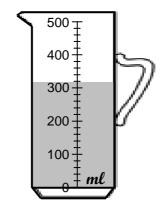
1 a) **Underline** the correct answer.

The amount of water in the jug is

 $(301 \, ml, 310 \, ml, 320 \, ml)$

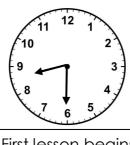
b) Fill in.

4 litres = $m\ell$

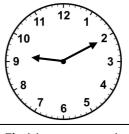


(2 marks)

2



First lesson begins



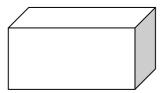
First lesson ends

Fill in.

- a) The first lesson **begins** at _____ past _____.
- b) The first lesson is _____ minutes long.

(3 marks)

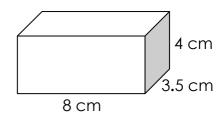
3 This shape is called a **cuboid**.



a) Fill in.

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

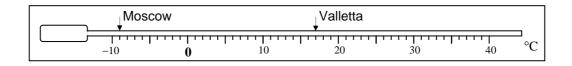
b) Work out the volume of the cuboid.



Answer: ____ cm³

(5 marks)

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



a) Write down the temperatures in

Moscow: _____ Valletta: ____

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

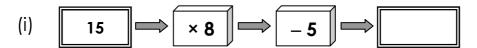
Difference: _____ °C

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

(5 marks)

5	the	ir favourite fruit. Their answers are wn in the pie chart . Apple Orange
	a)	Which is the most favourite fruit? Peach
	b)	What fraction like oranges?
	c)	How many persons like bananas? Banana
	d)	persons A person is chosen at random. What is the probability that the person likes bananas ?
		(5 marks)
6	a)	Write down the ratio BALLS: DOLLS.
	b)	Complete the following ratios. $ 3:6 \longrightarrow 1: $ $ 2:3 \longrightarrow 4: $
	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 (5 marks)

7 a) Complete these **number machines**.



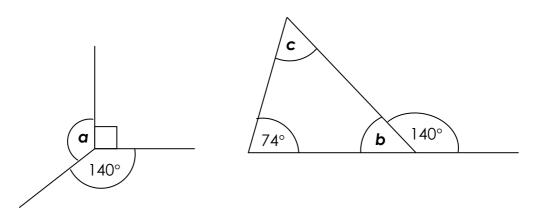


b) This number machine **doubles** the **input**. Complete the function machine.



(6 marks)

8 Work out the size of the marked angles.



(6 marks)

9 a) Underline the bigger quantity.

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

By how much is it bigger?

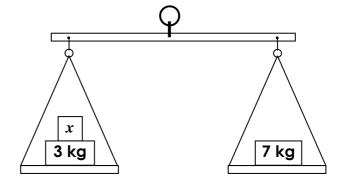
€_____

b) Write in order, largest first.

1.8, 0.8, 18,

(7 marks)

10 a) Find the value of x.



x = ____ ko

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

Draw a sketch of the letter.

PD FD 100 LT 90 FD 50 BK 100

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

PD REPEAT ____ [FD 80 RT ____]

(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	6	6	6	6	6
6	6	6	7	7	7	7	8	8



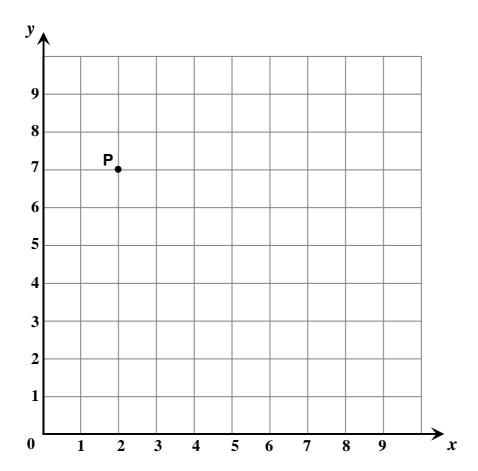
a) Complete the **frequency table**.

Shoe size	Frequency
4	
5	
6	
7	
8	2
Total	

b) Fill in.

(9 marks)

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

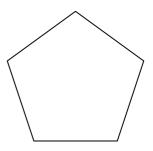


- b) Plot the points (4, 5) and (8, 1).
- c) **Draw** a **line** passing through **all** the 3 points.
- d) Fill in the missing numbers below.

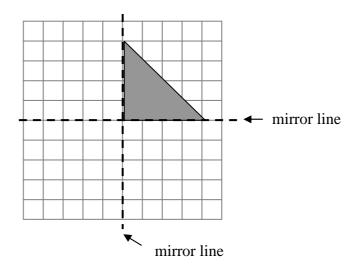
- e) **Plot** the points.
- f) Join the points with a straight line.

(8 marks)

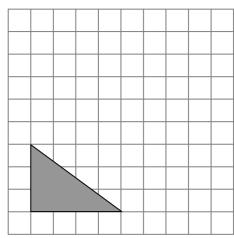
13 a) **Draw** all the **lines of symmetry** of this shape.



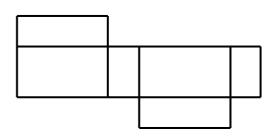
b) Reflect the shape in the mirror lines.



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).

(8 marks)