DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION Department for Curriculum Management and eLearning Educational Assessment Unit Annual Examinations for Secondary Schools 2012

## FORM 1

# MATHEMATICS Non Calculator Paper

LEV 01110 6 - 7 TIME: 30 minutes

Question	1	2	3	4	5	6	7	8	9	10	11	Total
Mark												

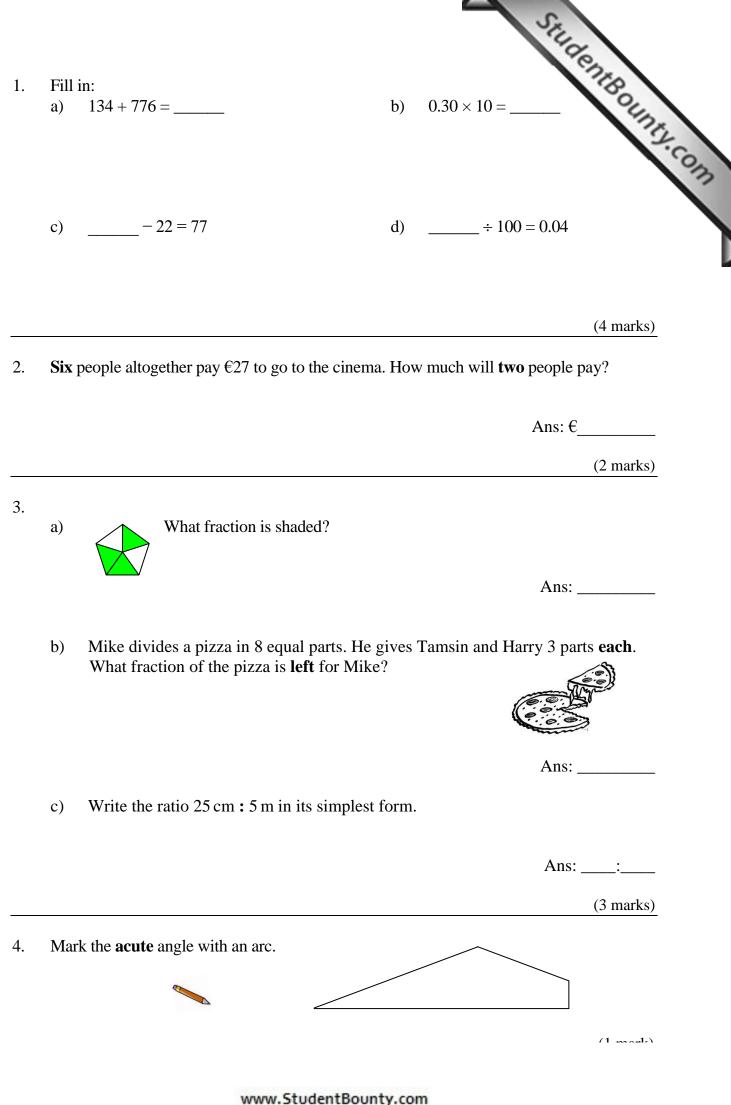
## DO NOT WRITE ABOVE THIS LINE.

Name:	

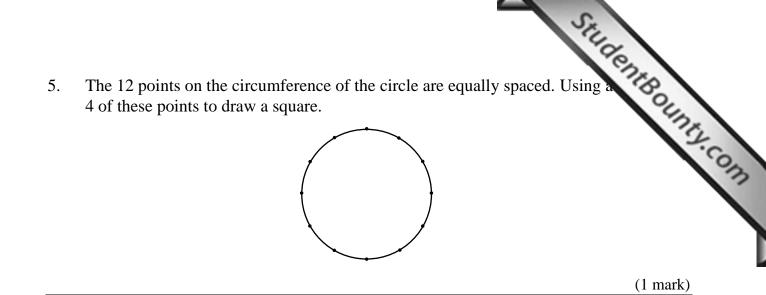
Class: \_\_\_\_\_

# **Instructions to Candidates**

- Answer all questions.
- This paper carries a total of 25 marks.
- Calculators and protractors are NOT allowed.



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6. Angelo buys a 2 litre bottle of water. He pours 200 *ml* in a glass. How much water is **left** in the bottle?

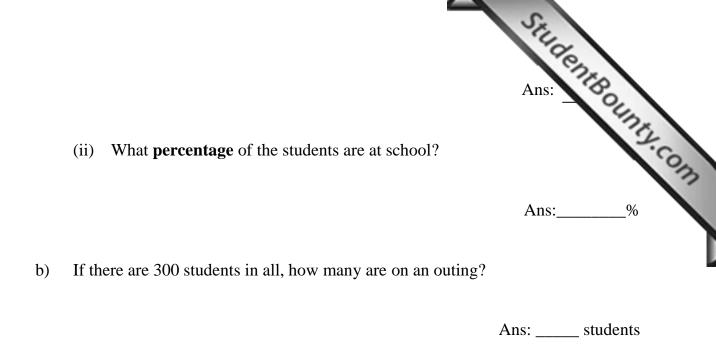
			Ans:	<i>ml</i> (1 mark)
7.	Con	nplete the patterns.		
	a)	€2.26, €2.51, €2.76, €, €3.26		
	b)	1, 2, 4,, 16.		
	c)	$-5^{\circ}C \qquad 0^{\circ}C \qquad 5^{\circ}C$		
		7°C, 5°C, 3°C, 1°C,°C.		
				(3 marks)
8.	Con	nplete the two number machines.		
	a)	input $5 \rightarrow \times 4 \rightarrow +7$	output	-1
	b)	input	output	<u>;</u>
		→ - 4 → ÷3	6	

9. In a school, 5% of the students are absent, 8% are on an outing and the rest are at school.

 $\frac{1}{(2 \text{ marks})}$ 

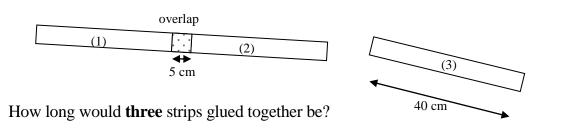
a) (i) Express the percentage of **absent** students as a **decimal**.

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(3 marks)

10. Strips of paper are each 40 cm long. They are stuck together with a 5 cm overlap.



Ans:	cm
	(2 marks)

### 11. Work out.

- a)  $\sqrt{64} =$ \_\_\_\_\_
- b)  $1^3 = \_$
- c) 1.5 m + 0.25 m =\_\_\_\_\_

(3 marks)

FORM 1 MATHEMATICS TIME: 1h 30min Main Paper	Depa Educ	rtmen ationa	nt for ( al Ass	Curric essme	R QUA culum ent Un a <b>s for</b> (	Mana it	igeme	ent and	d eLea	arning		DUC.	ATIO	N	25	LE	ntBo 6-	Allint's.C.	10
	FORM 1														TIM	<b>IE: 1</b>	h 30r	nin 🔪	2
	Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14			Global Mark	
	Mark																		

### DO NOT WRITE ABOVE THIS LINE.

Name:

Class:

CALCULATORS ARE ALLOWED BUT ALL NECESSARY WORKING MUST BE SHOWN. **ANSWER ALL QUESTIONS.** 

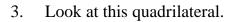
- 1. Write five thousand and seventy six in figures. a)
  - Express 100 000 as a power of ten. b)
  - Work out: c)

 $4800 \div 40$ 

(3 marks) 2. Which is the best estimate for the **length** of a flag mast? a) 7 mm, 77 cm, 7 m, 1 km Which is the best estimate for the **weight** of an apple? b) 15 g, 1 kg, 150 g, 5 mg Which is the best estimate for the **capacity** of a can of paint? c) 2 litres, 2 millilitres, 20 ml,  $1 \text{ m}^3$ Which is the best estimate for the **temperature** in a **hot** oven? d) -300°C, 20°C, 120°C, 300°C

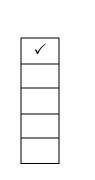
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(4 marks)



Tick ( $\checkmark$ ) the **correct** statements.

- a) It is a rectangle.
- b) It has line symmetry.
- c) It is a regular polygon.
- d) Its sides are all equal.
- e) Its diagonals are equal.



(2 marks)

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## 4. Put these in order from **largest** to smallest.

a)

1 hour 10 minutes 25 minutes	$1\frac{1}{4}$ hours	$\frac{1}{2}$ hour
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b)

6.25 m	269 mm	32 cm	2.7 km

c)

467 g 1.210 kg 0.5 kg 0.055 k
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(6 marks)

5. Estimate the number the arrow is pointing to.

a) 
$$18$$
 19 b)  $-2$  8

(2 marks)

				-	Stude
Nam	le:		(	Class:	- CITA VELS
6.	The followir	ng table shows the a	amount of pocket n	noney 10 boys get	t per week.
	€2.50	€4.00	€2.50	€3.50	€10.00
	€5.00	€3.00	€3.50	€2.50	€7.00

€2.50	€4.00	€2.50	€3.50	€10.00	
€5.00	€3.00	€3.50	€2.50	€7.00	

Find the **median** of the data. a)

median is\_\_\_\_\_

Work out the **mean**. b)

What is the **mode**?

c)

mean is\_\_\_\_\_

mode is\_\_\_\_\_

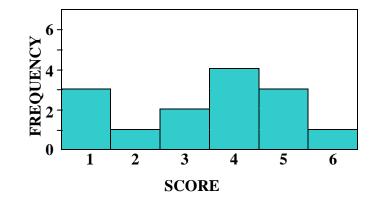
(4 marks)

7.	a)	This is an ordinary six sided dice.	
		(i) What is the probability of getting a four?	
		(ii) What is the probability of getting a <b>multiple</b> of 3?	
		(iii) Which are the three <b>prime</b> numbers on the dice?,,,	
		(iv) Which is the <b>larger square</b> number on the dice?	

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<ul> <li>Homework Help &amp; Pastpapers</li> </ul>	5

b) The bar chart indicates the numbers that were shown when Matthew the dice 14 times.

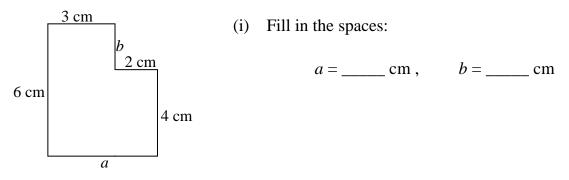
Use the information in the chart to fill in the frequency table.



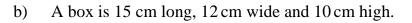
nown when Matthew th quency table. Score Frequency			
	Score	Frequency	ST3
	1-2		
	3-4		
	5-6		
	Total	14	

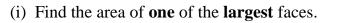
(9 marks)

8. a) The shape has perpendicular sides.



(ii) Work out the **perimeter** of the shape in centimetres.

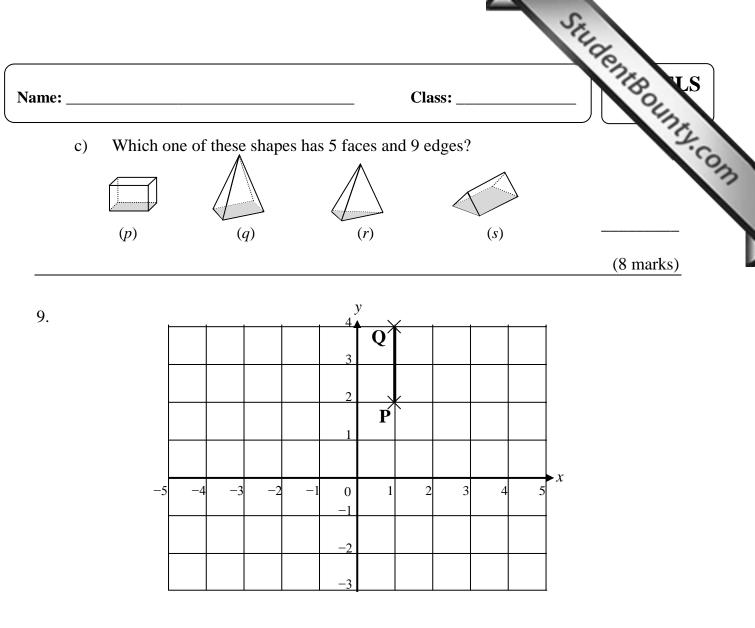




(ii) Find the volume of the box.

cm

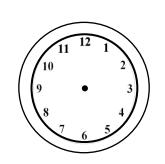
 $\mathrm{cm}^2$ 



- a) (i) Write the coordinates of points P = (, ) and Q = (, ).
  - (ii) Plot and label point R = (3, 4).
  - (iii) Plot and label point S so that PQRS is a square. Join PQRS.
  - (iv) **Reflect** the square PQRS in the y axis. Label it P'Q'R'S'.
  - (v) **Translate** the square PQRS **5 left** and **3 down**. Label it P"Q"R" S".
- b) (i) Write the coordinates of 1 more point which lies on the same **line** as the following points. (1, -3) (2, -3) (3, -3) (4, -3) ( , )
  - (ii) Which is the equation of this **line**?

y = -3 y = 3 x = -3 y = x - 3

(10 marks)



10.

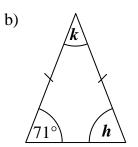
StudentBounty.com Angela's last birthday party started at half past five

- Show this time on the clock face. a)
- Write the time using 24-hour clock. b)
- The party finished at 9:00 pm. How long was the party? c)

\_\_\_\_ h \_\_\_\_\_ min

(4 marks)

If x = 4 and y = 10 find the value of : 2(x + y)11. a)



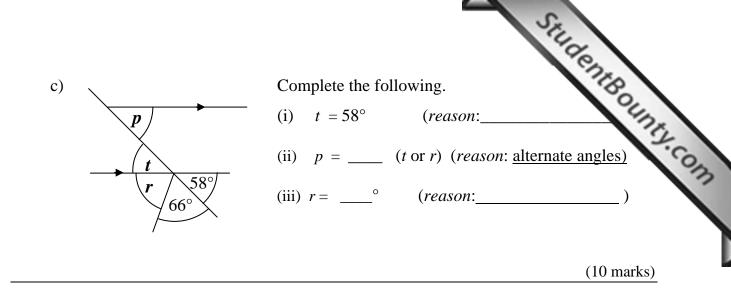
(i) Complete the statement:

This triangle is called isosceles because

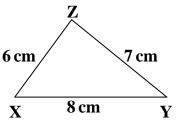
(ii) Work out the values of h and k in the triangle.

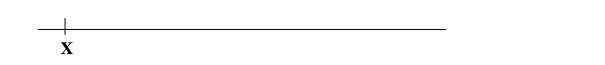
 $h = \_\_^{\circ}$ 

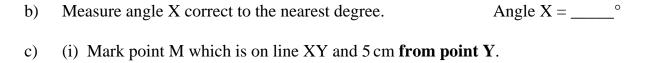
 $k = \_\_^{\circ}$ 



12. a) Using ruler and compasses only, make an accurate labelled drawing of the triangle shown, starting from the given line below.





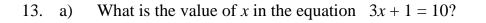


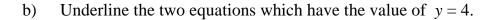
(ii) Draw line ZM and measure ZM to the nearest mm.

ZM = \_\_\_\_\_

(6 marks)

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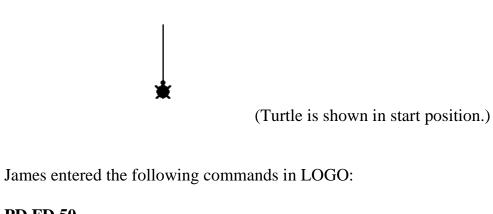
2y - 1 = 7 4 + y = 8 6y + 2y - 20 = 8 4y + 4 = 8

(4 marks)

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*x* = \_\_\_\_\_

14.



PD FD 50 \_\_\_\_\_

Write the commands necessary to complete the capital letter T.

(3 marks)