DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION Department for Curriculum Management and eLearning Educational Assessment Unit **Annual Examinations for Secondary Schools 2011**

StudentBounty.com FORM 1 MATHEMATICS 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.





7. Calculate the value of the angle marked *w*.



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w = °

(3 marks)



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Question	1	2	3	4	5	6	7	8	9	10	11	Total Main	Non Calc	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 a) Complete the shape to make it symmetrical about the broken line.

		\backslash				
	\square					
			1			

b) Fill in: This triangle has **rotational** symmetry of order _____.

Which of the following quadrilaterals does **not** have a line of symmetry? c)

> KITE PARALLELOGRAM RECTANGLE **CIRCLE**

> > (3 marks)

- Show the time *quarter past seven* on the clock face. 2. a) (i)
 - (ii) Write the time **half** an hour **later**.

- If today is Sunday ninth May, what date was it last Sunday? b)
- Annabel is doing a summer job from 9:00 am till 14:00. c) She is paid €5.34 per hour. If she takes a 1hour **unpaid** break everyday, how much does she earn:
 - in 1 day? (i)

(ii) in a five-day week, correct to the nearest euro?

(8 marks)

€

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Name:	Class:	
3. The diagram shows a sketch of $\triangle A$ construct an accurate diagram.	ABC. Use the following instructions to	

- Mark point C on the line, 10 cm away from point B. a)
- Use a protractor to draw an angle of 37° at B and an angle of 53° at C. **b**)
- Continue to make an accurate, **labelled** drawing of $\triangle ABC$. c)
- Measure angle A. d)

Angle A = _____

- Mark and label point X, the midpoint of BC. e)
- Draw a circle with centre X and with AX as radius. f)

(8 marks)

(i) Charlotte makes a **5 minute** call. How much does her call cost?

_____ cent

(ii) Xandru makes a 10 minute call. He says he will pay twice as much as Charlotte. Is he correct? Explain.

- (i) Draw the 4th pattern in this sequence made up of matches.
- (ii) Complete this table:

Pattern number	1^{st}	2^{nd}	$3^{\rm rd}$	4^{th}	5^{th}	
Number of matches	4	7				
						(7 marks)

6. The table shows the pocket money (in euro) earned per week by a group of

		-	8
			14
s the poc	ket money (in eur	o) earned per week	by a group of
			10
5	5	10	10
-			
10	10	10	10
10 12	<u>10</u> 12	10 12	10 15
10 12 15	10 12 15	10 12 18	10 15 20

- What is the **range** of pocket money? a)
- Complete the table. **b**)

Pocket money	Tally	Frequency
1 - 5		2
6 - 10		
11 - 15	++++_1	
16 - 20		
21 - 25		
26 - 30		
	Total	20

c) Continue shading the bar chart to represent the above information.

d) Fill in the spaces.

The number of children who received less than €16 : those who received €16 or more

____:

What is the probability of receiving **more** than **€20** in this group? e)

=

€

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- a) Write the co-ordinates of A(,) and C(,).
- b) Plot and label the point $\mathbf{B}(8, 7)$.
- c) Use a ruler to join **A** to **B** to **C** to form a triangle.
- d) What is this triangle called?

(8 marks)

The diagram shows a balanced scale. Fill in the spaces below.

- (i) B = _____ g
- (ii) A = _____g
- (iii) Find the value of x when
 - x + 8 = 10

x = _____

(iv) Find the value of *y* when

$$2y - 3 = 7$$

y = _____

b) Complete the LOGO command that draws a **square** whose **perimeter** is **200** turtle steps.

PD REPEAT ____ [FD ____ RT ___]

(8 marks)

- (i) 4a + 9b + a 2b =
- (ii) 2(3p-4) + p =
- b) If h = 2 and j = 5, work out the value of 3(h + j).

For each of the following describe *fully* the transformation which takes the first shape on to the second.

- a) **P** to **Q**
- b) **P** to **R**

(7 marks)

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Fill in:

This solid has _____ edges.

by the two cuboids.

_____ cm³

(5 marks)

END OF PAPER