SAINT IGNATIUS COLLEGE Girls' Junior Lyceum BLATA L-BAJDA HALF YEARLY EXAMINATIONS 2010

FORM 1 MATHEMATICS SCHEME A TIME: 1 hour 30 min Main Paper

Name: _____

Class: _____

Question	1	2	3	4	5	6	7	8	Non Calculator	Main	Global Mark
Mark											

- Answer all questions.
- This paper carries 75 marks.
- Calculators and mathematical instruments are allowed but ALL necessary working must be shown.
- Do NOT 1. A group of **6** youths went to Annie's Take Away. They bought the items write in this shown in the table. Burger margin Bowl of onion rings Item Cost in € 5 burgers €2.34 6 bags of chips €3.00 2 onion ring bowls €1.16 Ice-cream 8 ice-creams Total €1.50 Bag of chips (a) Fill in the above table to find the **total cost**. (b) The 6 youths decided to divide the **total cost** between them. How much did **each** pay? Each paid € _ 7 marks





6. The following bar chart gives information on how Jane spends a particular day (24 hours).



(a) Use the above bar chart to complete the following table.(*The working for Playing is done for you*). Show your working.



Do **NOT** write

in this

margin

6. (c) At school Jane is learning how to draw pie charts.She kept a record of the traffic passing by her house in one hour.She counted a total of 30 vehicles passing by her house.Jane drew a pie chart to show this information.

Do **NOT** write in this margin



Number of buses = _

7.	Use the graph paper on the next page to answer this question.													
	(a)	(i)	Plot the following points: A $(1,1)$, B $(1, 2.5)$, C $(2.5, 2.5)$. Join A to B to C.											
		(ii)	i) Plot the fourth point, D, needed to make a square.ii) Write down the co-ordinates of D.											
		(iii)												
			Co-ordinates of D = (,)											
	(b)	(i)	Plot the following points: $E(-2, 3)$, $F(0.5, 3)$, $G(0.5, 4)$. Join E to F to G.											
		(ii)	Plot the fourth point, H , needed to make a rectangle .											
		(iii)	i) Write down the co-ordinates of H .											
		Co-ordinates of H = (,)												
	(c) Look a the shape IJKL on the next page.(i) Write down the co-ordinates of the points I, J, K and L.													
		I =	(,) J = (,) K = (,) L = (,)											
	(ii) What is the shape IJKL called?													
	IJKL is called a													
	 (d) Look a the shape PQR on the next page. (i) Write down the co-ordinates of the points P, Q and R. 													
			P = (, $) Q = ($, $) R = ($, $)$											
	(iii) What type of triangle is PQR?													
	Triangle PQR is													
_														



Do **NOT** write in this margin



8. Find the value of each lettered angle in the diagram.

Show ALL your working and give reasons for your answers.

Remember to write down any angle found, on the diagram. This helps you to find the remaining angles.



END OF PAPER

Do **NOT** write in this margin