#### **SECONDARY SCHOOL ANNUAL EXAMINATIONS 2009**

Directorate for Quality and Standards in Education Educational Assessment Unit



FORM 1	]	MA'	TIME: 30 minutes									
Name:										Class:		
	Question	1	2	3	4	5	6	7	8	Total		
	Mark											

### **Instructions to Candidates**

- Answer all questions.
- This paper carries 25 marks.
- Calculators and protractors are not allowed.

1.	Peter has <b>€1</b> . He pays <b>47 cent</b> for a bus ticket.									
	How much <b>change</b> does he get?									
		(3 marks)								
2.	A dictionary costs <b>€29</b> . <b>Eight</b> students buy a dictionary each.									
	(a) What is the <b>total cost</b> of the eight dictionaries?									
	(b) Round your answer to the <b>nearest hundred</b> euro.									
		(3 marks)								
3.	Which number divides exactly by <b>4</b> ? <b>625, 426, 510, 712</b>									
4.	There are <b>28 pupils</b> in a class.	(2 marks)								
	A quarter of them like chocolate ice-cream.									
	How many pupils like chocolate ice-cream?									
		(3 marks)								

5.	A model aeroplane is made to a scale of <b>1</b> : <b>20</b> . The model is <b>52 cm</b> long.  (a) How long is the real aeroplane in <b>centimetres</b> ?
	(b) Give your answer in <b>metres</b> .
6.	Work out: <b>76 – 3 × 20</b>
	(3 marks)
7.	Work out the <b>output</b> of this number machine.
	(3 marks)
8.	Mary is planning a birthday party. She wants to buy some party hats and some balloons.  (a) <b>Complete</b> the formula:
	Cost (cent) =
	(b) Work out the cost of <b>10 hats</b> and <b>20 balloons</b> .
	(4 marks)

# **END OF PAPER**

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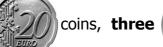


FOR	M 1	MATHEMATICS SCHEME C  Main Paper											TIME: 11	n 30mii			
								M	lain	Pap	er						
Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total Main	Non Calculator	Global Mark
Mark																	
					D	O N	TO	WRI	TE A	ABO'	VE 1	rhis	LIN	<b>IE</b>			
Name	:			-											Class	<b>!</b>	
<ul><li>Ans</li><li>This</li></ul>		all q per c				ks.											
	culat wn.	tors a	and	math	nema	tical	inst	rume	ents :	are a	llow	ed b	out a	ll ne	cessary	working	must b
1.	(a)	Johr	n ha	s five	e nur	mber	car	ds.									
			7			77			<u>(0)</u>			(%	7		9		
		0	リ			<u>U</u>			<u>(U)</u>			0					
	(i)	Mak	e up	the	larg	jest	num	ber	usin	g all	the	card	S.				
	(ii)	Writ	e th	is nu	ımbe	er in	wor	ds.									_
	, ,																_
	(b)		( <b>e</b> )	)		26	650	)		26 7	00			( <b>f</b> )		26 80	0
			L														
		The	mis	sing	num	bers	on t	this ı	numl	ber li	ne a	re:					
		( <b>e</b> )	)									( <b>f</b> )					

\_\_\_\_(4 marks)

2. Mary has some money in her piggy bank.

She has **nine** 









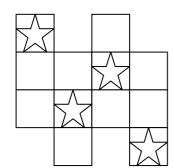
and **four** 



coins. How much money does she have?

\_\_\_\_(5 marks)

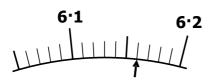
3. (a) Write, as a **fraction**, the number of boxes containing a star.



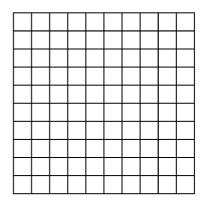
Complete:

Boxes with a star 
$$=\frac{12}{12} = \frac{6}{6} = \frac{12}{6}$$

(b) What decimal number does the **arrow** point to?



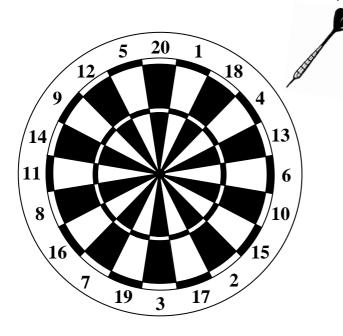
(c) Shade in **15%** of the grid.



Name:	



4. Jesmond is playing darts.
Write down the **numbers** he should hit, if he wants



- (a) **even** numbers.
- (b) multiples of 4.
- (c) **square** numbers.
- (d) **factors** of **12**.

\_\_\_\_(8 marks)

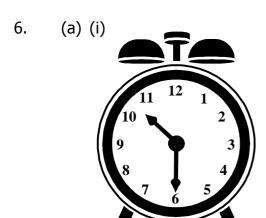
5.



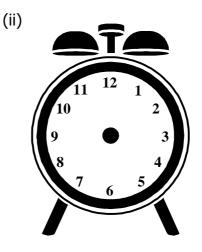
The diagram shows the buttons in the lift at a supermarket.

- (a) Fill in the **missing** numbers on the buttons of the lift.
- (b) Jane is one floor below the ground. She wants to go up to the third floor. How many floors does she go up?
- (c) Paul is on the second floor.
  He wishes to go down five floors.
  Which button should he press?

\_\_\_\_(3 marks)



Write the time in words.



**Draw** the hands of the clock to show the time

18:40

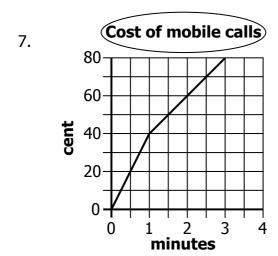
- (b) (i) What **day** of the week will December 7<sup>th</sup> be?
  - (ii) What **date** will the first **Friday** of December be?

...

(iii) December 25<sup>th</sup> is Christmas Day. What date will it be a week **after**?

	December 2009								
M	Т	W	Т	F	S	S			
	1	2	3	4	5	6			
7	8	9	10	11	12	13			
14	15	16	17	18	19	20			
21	22	23	24	25	26	27			
28	29	30	31						

\_\_\_\_(6 marks)



What is the **cost** of using a mobile for:

- (a) 3 minutes?
- (b)  $1\frac{1}{2}$  minutes?

\_\_\_(3 marks)

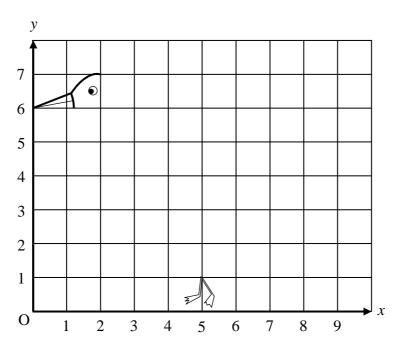
8. (a) Joseph buys some groceries. Work out the bill.

Item	Price	Total Cost			
2 packets orange juice	77 cent per packet	€	•		
$\frac{1}{2}$ kg flour	68 cent per kg	€	•		
1 loaf of bread	54 cent	€	•		
	Grand Total	€	•		

(b) Joseph pays the bill with a €5 note. What change does he receive?

\_\_\_\_\_(6 marks)

9.



(a) **Plot** and **label** the following points:

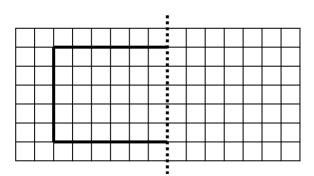
**A** (0, 6) **B** (2, 6) **C** (4, 2) **D** (5, 1)

**E** (7, 3) **F** (8, 5) **G** (6, 4) **H** (2, 7)

(b) Join A to B, B to C, C to D, D to E, E to F, F to G and G to H.

\_\_(4 marks)

10. (a) (i) **Complete** the symmetrical shape.



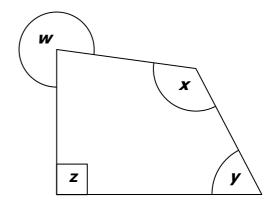
- (ii) How many **lines of symmetry** does the shape now have?
- (iii) Write down the order of **rotational** symmetry of the shape.
- (b) Write down the angle which is

acute:

obtuse:

right-angled:\_\_\_\_\_

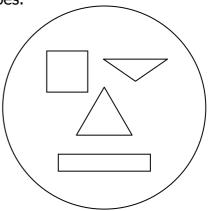
reflex:



\_\_\_(7 marks)

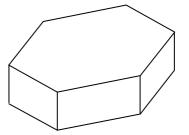
11. (a) The face of this clown is made up of  ${f five}$  shapes.

Name each shape as **accurately** as you can.



(b) Complete the table. This shape has:

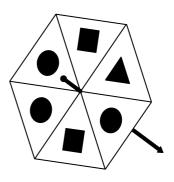
faces	vertices	edges



(8 marks)

12.	(a) E	Each square is of side <b>1 cm</b> . (i)	Work out the <b>perimeter</b> of the shape.  Work out the <b>area</b> of the shape.
	(b)	Marie builds this shape using blocks. Each block is <b>1 cm</b> <sup>3</sup> .  What is the <b>volume</b> of the shape? cm <sup>3</sup>	(6 marks)
13.	L t	Mandy watches the traffic driving by. She draws a pie chart.  List the means of transport in he pie chart <b>in order</b> ; start with the <b>least</b> popular.	trucks buses
		The ages of five children are  3 years, 6 years, 4 years, 8 iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	years and 4 years.
	(	ii) What is the <b>mode</b> of their ages?	(5 marks)

14. (a) Carmen turns this spinner.
What is the probability that this spinner lands on a **circle**?



(b) Draw a sketch using these **LOGO** commands. Start from the turtle.

PD

**FD 100** 

**RT 90** 

**FD 100** 

LT 90

**FD 100** 



(4 marks)

# END OF PAPER