

Instructions to Candidates

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

Anna puts numbers in this machine. 1.



Work out the answer that comes out when she puts in the following numbers:

b) 40.06 a) 247

(2 marks)

Mr Zerafa buys some carrots, broccoli and cherries. 2.

a) Which item cost him least ?			
b) Calculate his total bill.		237	The
	- 72c	€1.12	€2.57
_	carrots	broccoli	cherries

€_____

c) What change does Mr Zerafa get from $\in 5.00$?

€___

(5 marks)

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- Angela goes shopping. Angela goes shopping. $\overbrace{t=1,72}^{t}$ $\overbrace{t=2,38}^{t}$ $\overbrace{t=3,61}^{t}$ $\overbrace{t=3,25}^{t}$ $\overbrace{t=2,50}^{t}$ pincapple
 - a) Write the prices of Angela's shopping in order, starting from the smallest.
 - b) Underline the correct word: The **pineapple** has the (least, mode, highest, median, range) price.
 - c) Write each price correct to the **nearest Euro** (\in).

3.



d) Use your answers in (c) to calculate a **rough estimate** of how much Angela spends in all.



4.	The number in each rectangle is equal to the sum of the two numbers					
	directly below it.		[2	20]
	Example: $3 = 1 + 2$			8		7
	Find the values of A, B, C and D.	[1	2	C	/ D
	A =, B =, C =, D =					

(2 marks)

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Becky and her four friends share the total bill equally among them.

The total bill is €25.30.

6.

How much does each one pay?

(2 marks)

 a) Draw the reflection of this shape in the line of symmetry.



b) Move this Euro coin 3 right and 2 up.Draw the coin in the new position.



(3 marks)

END OF PAPER

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FORM	2					MA	ATH Mai	EM n Pa	ATI aper	CS				TIM	E: 1h	30min
Question	1 2	3	4	5	6	7	8	9	10	11	12	13	14	Total Main	Non Calc	Globa Mark
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				DO) NO'	ΓW	RITF	E AB	OVE	THI	S LII	NE				
ame _													Cla	nss		
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		5 7 11			AN	SWE	ER A		QUES	TIO	NS.					
	\frown		_	_		_	_		_	_			_	C		
	5		8	3			7)		3			1	
a) Us	e these	cards	to ma	ike th	e fol	lowin	ng nu	mber	s:							
:) the	small	lest 4	-digit	num	ber.						_				
:	i) the	large	st 3-0	ligit 1	numb	er										
	ii) a 2-	digit	mult	iple o	of 7.						_					
b) Fil	l in the	missii	ng nu	mber	s in t	he fu	nctio	n ma	chine	s:						
	8	3		-	×	2			•		3			•		
	\square			\subset					\subset		•					
		┢		≁	+	2	╞		≁	×.	3	╞		→15	5	

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Jake uses some solid wooden shapes to make a puppet. 2. a)

Fill in the blanks using the following words:



Find the volume of wood of one of the cuboids used for the puppet's feet. b)



 cm ³

(5 marks)

3.	a)	Use your pencil to shade this grid grey and white in the ratio 2 : 3 .	
	b)	Fill in : There are grey squares.	
		There are white squares.	
	c)	Write this fraction in its lowest terms: $\frac{\text{grey squares}}{\text{whole grid}} = \frac{15}{15} = \frac{15}{15}$	
	d)	Write the fraction in (c) as a percentage .	% (5 marks)

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Na	ime:			Class:	StudentBoy
4.	Circle the odd one a) (50%,	out. $\frac{1}{2}$,	0.2,	0.5)	Inti-com
	b) (4, c) (cm.	2 5, mm.	9, g.	16) km))
	d) (scalene,	square,	isosceles,	equilateral)	(4 marks)

5. a) Match the **angles** formed by the girl's fan to their correct names. One is done for you.



b) Use your **protractor** to draw and label an angle of 83°.

6. a) Peter weighs each item.

Mark the weight of each item on the scale. The first one is done for you.



b) How many small pieces of cheese (200 g) can be cut from the larger piece (1.5 kg)?



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c) Use compasses and protractor to construct Luke's triangle accurately.



(6 marks)

9.	Sam does a	questionnaire amo	ong his friends at	the football nursery.
· ·	Sam acco a	questionnane anno	mg mb momas a	the rootoun nurber y.

				210	Idents
does a questionna	aire among his frie	nds at the fo	otball nursery.	DF	oount
	FOOTBALL NOP	ISERT QU	ESTIONNAI	XE	
Male		Age	8 years		
Female		Ten I	9 years		
	Ever Car	ارده	10 years		
	RUPS	ll l	11 years		
~	- Con	22	12 years		
\checkmark		\leq	\sim $<$	\frown	

He shows the information collected as follows:



Age	8	9	10	11	12
Number of Players	4	2	15	8	1

a) Measure the angle in the pie chart that represents the female players.

b) Underline the correct word:

There are more (females, males, players) in Sam's football nursery.

c) How many players answered the questionnaire?

_____ players. d) What is the most common age of the players? _ years.

f) Find the range of ages at the football nursery.

e) What is the age of the oldest player?

_ years.

_ years.

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10. Jessica has **€50** in her wallet. She wants to buy the following items.



(4 marks)

€





b) Calculate the perimeter of Claire's bedroom.

m

c) Find the area of Claire's bedroom.

 m^2

(6 marks) Mathematics – Main Paper – Form 2 Secondary – Scheme C – 2012

4

- 12. a) Look at the graph and fill in the blanks:
 - €6 = £
 - b) Use the information in (a) to calculate the cost in **Pounds** (£) of a video game which costs €48.



£_____(3 marks)

13. Nathan buys game cards from internet.Nathan writes down the formula

 $\mathbf{C}=2n+3.$

a) Underline the correct one:

C stands for (total cost, game cards, packets).

b) How much does it cost to buy 5 packets of cards?



Packets of Game Cards @ €2 each Postage costs €3 per order

€_____

_ packets

(4 marks)



- a) Fill in the coordinates of A(,) and C(,)
- b) Join points A, B, C and D to form shape ABCD.
- c) Underline the correct word: Shape ABCD is called a (triangle, trapezium, square).
- d) Plot and label the following points:
 - i) E (-1, 5) ii) F (-1, -3) iii) G (0, -2) iv) H (3, -2) v) I (-1, 4)
- e) Join the lines AE, EF, FG, GH and HI.
- f) The Picture formed has a vertical line of symmetry. TRUE or FALSE (10 marks)

END OF PAPER

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