DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION

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FORM 3			MA					CHE: Pap		D	TIME: 3	30 minu	ites	
Name:							_				Class:			
]		
	1	2	3	4	5	6	7	8	9	10	Total	_		

Instructions to Candidates

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

1. Work out:

a)
$$(3+4)-2=$$

b)
$$(9-7) + (8-4) =$$

(2 marks)

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2. Follow the rule and continue the sequence.

a) The sequence is **ADD 3**.

b) The sequence is **MINUS 5**.

(2 marks)

3. Work out:

a)
$$\frac{1}{2}$$
 of $\{1 = \underline{}$

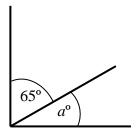
b)
$$\frac{1}{4}$$
 of $\{0\}$ = ____cent

(2 marks)

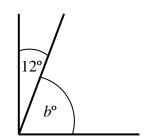
Name:	 _ Class:

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4. These are **right angles** divided into two. Each **right angle** is 90°. Work out (do not measure) the value of the unknown angle.



a = _____



b = _____

(2 marks)

5. Find '100 less than' and '100 more than' to complete the table below.

- 100		+ 100
	115	215
	331	
	728	

(3 marks)

- 6. Emma bought a tin of beans for 19c and a loaf of bread for 54c.
 - a) How much did she pay in all?

Ans: ____c





b) Work out the change she gets from €2.

Ans: _____

(2 marks)

This tally chart show	vs the drinks sold on a Saturda	y morning. FREQUENCY
DRINK	TALLY	FREQUENCY
Coffee	un un un i	16
Tea	un un III	1
Milk	W1111	
Juice	W111	
Water	un un un	

a)	Fill	in	the	last	col	lumn

- b) Which drink was the **most popular**? _____
- c) Which drink was the **least popular**? _____
- d) What was the **total number** of drinks sold? _____

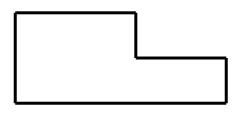
(4 marks)

8. Solve the equations.

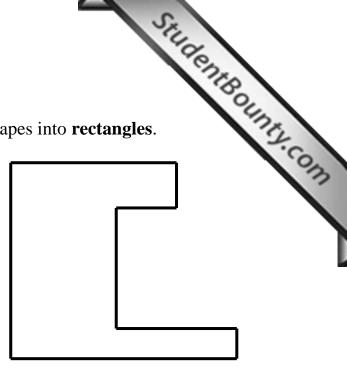
a)
$$10 + p = 12$$

b)
$$3t = 36$$

(3 marks)



Number of rectangles is _____



Number of rectangles is _____

(2 marks)

10. Round these prices to the nearest euro.

Object	Price	To the nearest euro
SCARF SCARF	€10.74	
JEANS (€35.49	
SKIRT	€47.09	

(3 marks)

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Department for Curriculum Management and eLearning

Educational Assessment Unit

Annual Examinations for Secondary Schools 2013

Student Bounty.com FORM 3 MATHEMATICS SCHEME D TIME: 1h 30min **Main Paper**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total Main	Non Calculator	GLOBAL MARK

DO NOT WRITE ABOVE THIS LINE

Class:
WED BUT ALL NECESSARY WORKING MUST BE SHOWN. ANSWER ALL QUESTIONS.
n order, starting with the smallest:
€0.90, €0.40, €0.60
25 kg, 2.40 kg, 1.15 kg, 2.04 kg
ľ

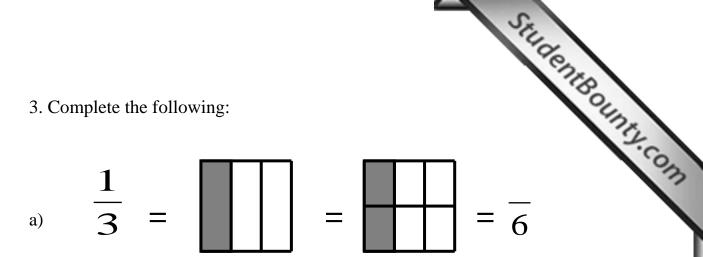
2. Complete the table below.

	Is it a multiple of 3?	Is it a factor of 30?	Is it a prime number?
5	No		
6		Yes	
12			No

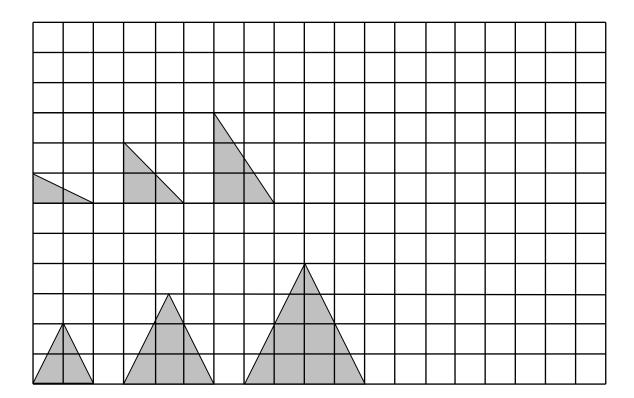
(4 marks)

(2 marks)

3. Complete the following:



4. Draw the next pattern in each row:



Name: _____ Class: ____

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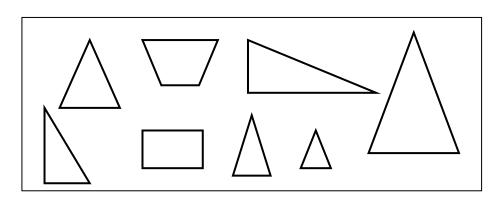
5. a) Mary and Paul share 20 chocolate cakes in the ratio 2: 3. How many cakes do they each have?



Mary gets ____ cakes

Paul gets _____ cakes

b)



Fill in:

- (i) There are ____ right-angled triangles in the diagram.
- (ii) There are ____ isosceles triangles in the diagram.
- (iii) Complete:

number of quadrilaterals: number of triangles =

____: ___: ____: ____: ____: ____: ____:

Shindent Bount I com 6. a) Last Monday, 97% of the students were present. What percentage the students were absent?

Ans: Students absent: _____%

b) Work out 10% of 20 kg.

Ans: ____kg

c) Write 50% as a fraction. Simplify your answer.

Ans: 50% = ____

(6 marks)

7. Simplify:

a)
$$3b + 2b =$$

b)
$$8x - 3x =$$

c)
$$2y + 3z - z + 3y =$$

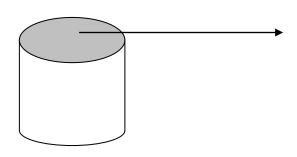
(4 marks)

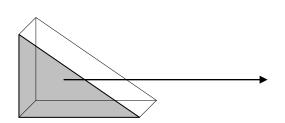
Name: _____ Class: _____

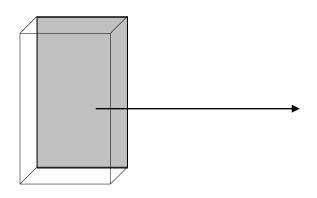
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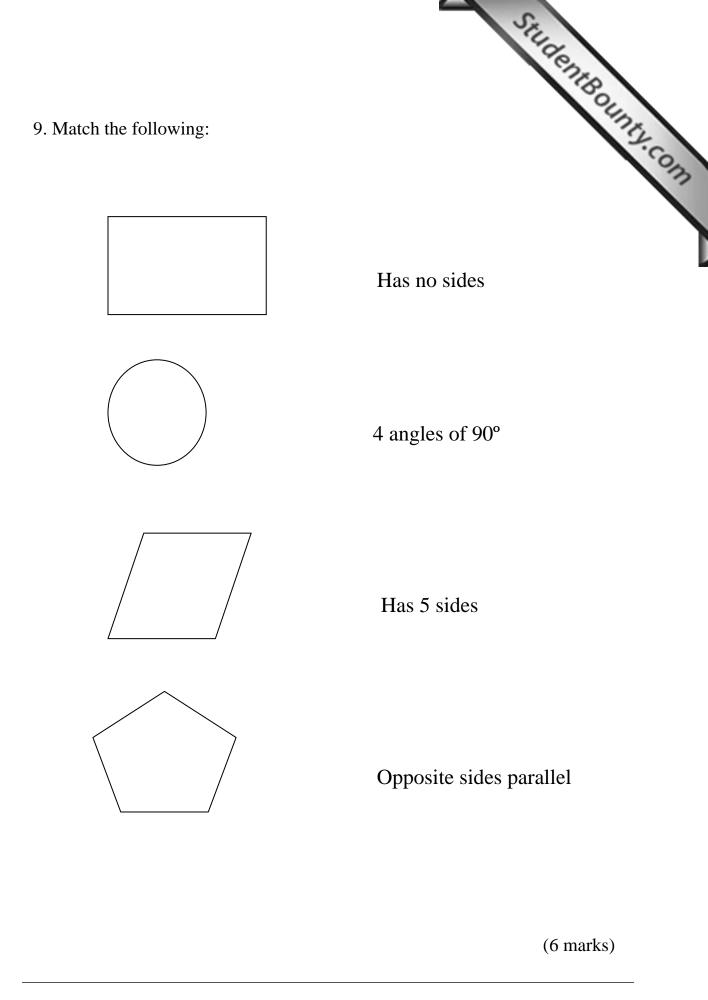
8. Draw the shape of the **shaded face** shown. (The first one is done for you.)



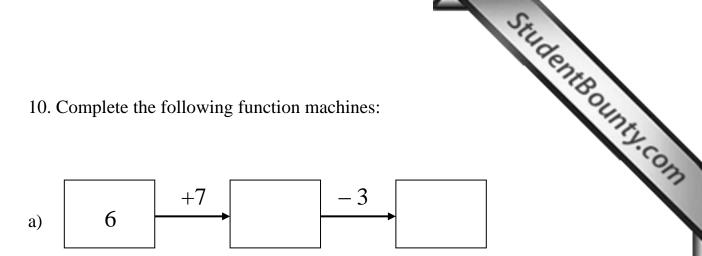


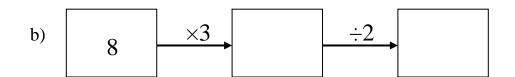






10. Complete the following function machines:





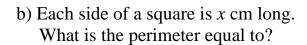
(4 marks)

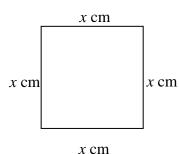
11. a) Mark has m marbles and wins 4. How many marbles does Mark have now? Underline the correct answer.

Mark now has 4*m*

m+4

marbles. m-4

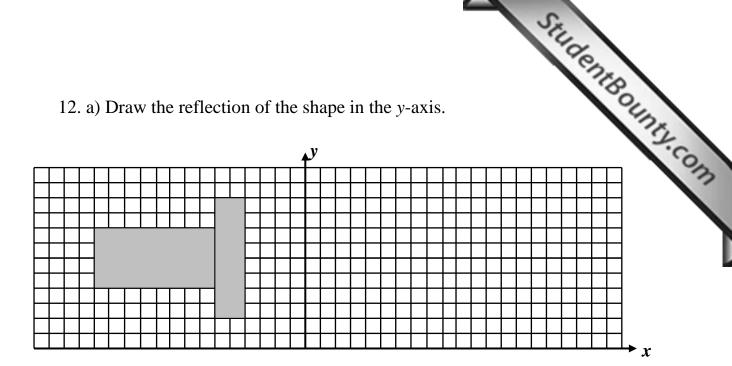




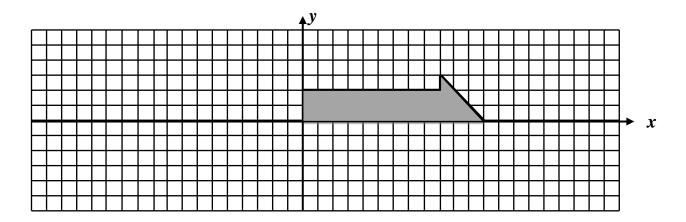
Ans: Perimeter is _____ cm

c) Work out the value of 2b + c when b = 4 and c = 7.

12. a) Draw the reflection of the shape in the y-axis.



b) (i) **Both** the x- and the y-axis are lines of symmetry in the grid below. Complete the diagram.



(ii) The area of the given shaded figure is 22.5 cm². What is the total area of the complete diagram?

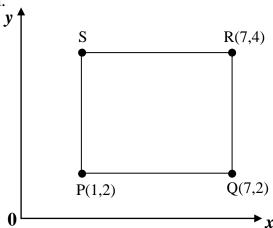
Ans: Total area is ____ cm²

(8 marks)

13. Read the statement an	nd tick the correct	probability.	CERTAIN	7
	IMPOSSIBLE	POSSIBLE	CERTAIN	.6
Thursday will follow				
Wednesday.			v	•
It will be dark tomorrow				
night.				
Tomorrow you will see a				
dinosaur at school.				
You will go to the sea this				
summer.				
It will rain during				
summer.				

(4 marks)

14. Look at this diagram.



a) X is half way between points P and Q. What are the coordinates of point X?

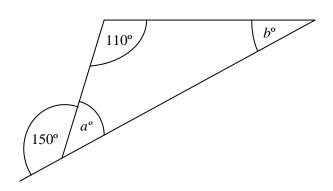
Ans: Point
$$X = (,)$$

b) Shape PQRS is a **rectangle**. What are the coordinates of point S?

Ans: Point
$$S = (,)$$

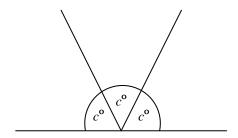
(4 marks)

Student Bounty.com 15. Work out the angles marked with letters in the diagrams below.



Ans:
$$a^{\circ} = _{---}^{\circ}$$
, $b^{\circ} = _{---}^{\circ}$

$$b^{o} =$$



Ans:
$$c^{\circ} = _{--}^{\circ}$$