

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

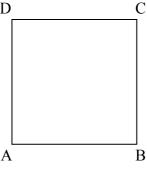
1. Fill in the missi	ng boxes:		Studente	County
kilometres	1 km	$\frac{1}{2}$ km	$\frac{1}{5}$ km	.com
metres	1000			

kilogram	1 kg	0.6 kg	0.9 kg
gram		600 g	

2. a) ABCD is a square. Measure side AB. D Give your answer correct to 1 decimal place.

side AB = \_\_\_\_cm

b) Work out the perimeter of square ABCD.



Ans: \_\_\_\_\_cm

(2 marks)

(3 marks)

3. Complete the following calculation:

$$347 \times 3 = (300 \times 3) + (\_ \times 3) + (7 \times \_) = \_$$

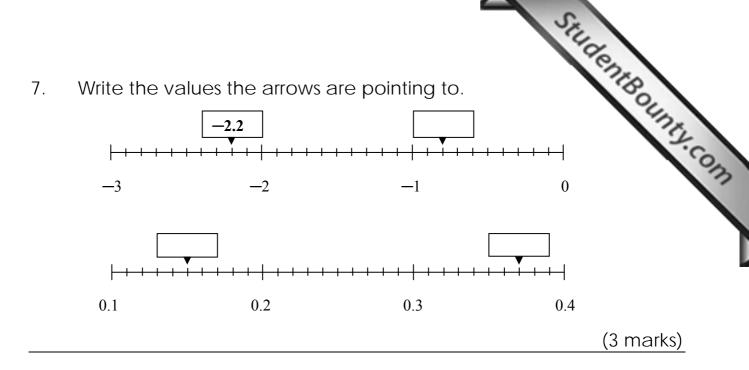
(2 marks)

Mathematics - Secondary Schools - Scheme D - Form 3 - 2011 - Non Calculator

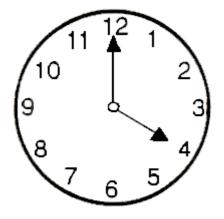
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Name:			Cl	ass:	CENTR
4. Vanessa b a) How mu	-			). €15	StudentBount
Ans: €			_		€25
b) What cl	nange did s	she get fro	m a €100 r	note?	
					Ans: €
					(2 marks)
5.a) Comple	ete the patt	ern:			
1,	5,	9,	13,	1	1
<b>1</b> st	2 <sup>nd</sup>	3rd	4 <sup>th</sup>	5 <sup>th</sup>	6 <sup>th</sup>
b) The diffe	erence bet	ween eac	h term is		
c) The 9 <sup>th</sup> t	erm is	·			(3 marks)
5.a) Simplify	4 <i>a</i> – 2 + 6a	a + 5			
					Ans:
b) Solve th	e equation	: 6 <i>p</i> = 30.			
	t the velue	of	D Y E		Ans:
C) MORE OU	I THE VAIUE		$\Pi X = 0.$		
c) Work ou					Ans:

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8. a) This clock shows the time early in the morning.



Everyday, Mary wakes up for school at half past seven. How much more time has she left before she gets out of bed?

Ans:\_\_\_\_

b) This digital clock shows the time in the evening. Mary has dinner 40 minutes later. At what time is dinner?

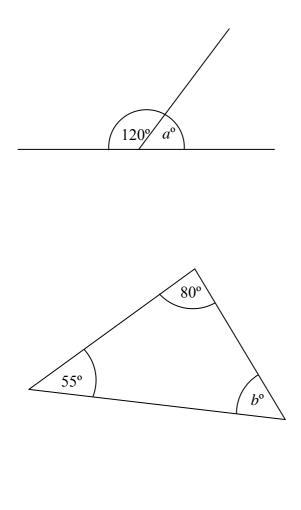
18:30

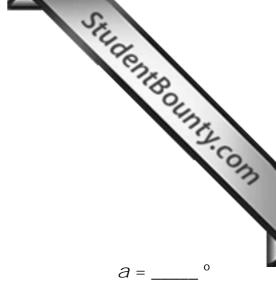
Ans:\_\_\_

(2 marks)

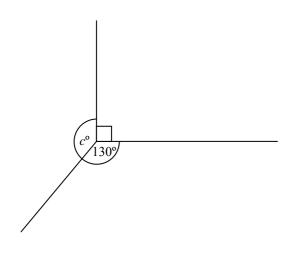
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9. Work out the size of the marked angles.





b = \_\_\_\_°



*C* = \_\_\_\_\_<sup>0</sup>

(3 marks)

10. A turtle walks North for 100 turtle steps, turns East and walks for another 150 turtle steps.
a) Mark on the diagram the angle through which the turtle turns.
b) What is this angle equal to? \_\_\_\_\_°

(2 marks)

### **End of Paper**

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FORM	[3						N			EMA n Pa		CS					TIME	E: 1h 3	0 min
Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Total Main	Non Calc	Global Mark
Mark																			

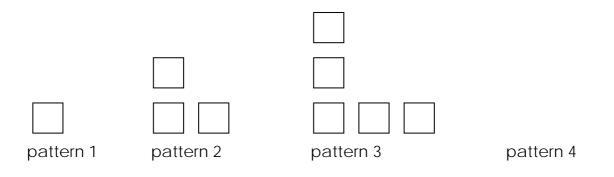
### DO NOT WRITE ABOVE THIS LINE

Name: \_\_\_\_\_

Class: \_\_\_\_\_

CALCULATORS ARE ALLOWED BUT ALL NECESSARY WORKING MUST BE SHOWN. ANSWER ALL QUESTIONS.

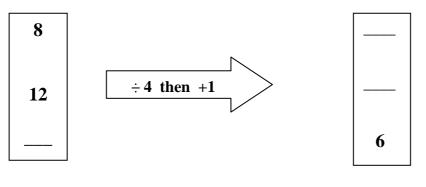
1.a) Draw the next pattern:



b) How many squares are there in the 5<sup>th</sup> pattern?

Ans (4 marks)

2. Fill in the blanks to complete this number machine.



(2 marke)

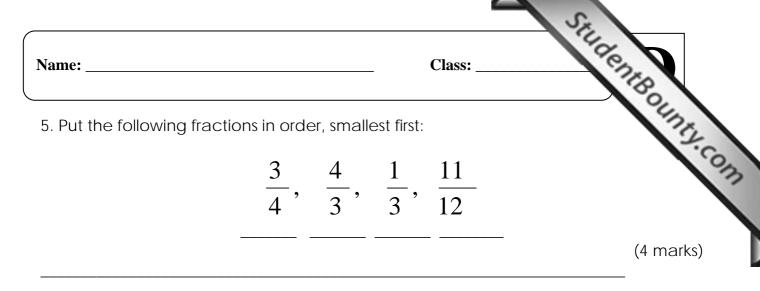
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- 3. The diagram represents a room. It can be divided into square S and rectangle R.
  a) Work out the area of square S.
  Ans\_\_\_m<sup>2</sup>
  b) Fill in: rectangle R is 3 m wide and \_\_\_\_ m long.
  - c) Work out the area of rectangle R.

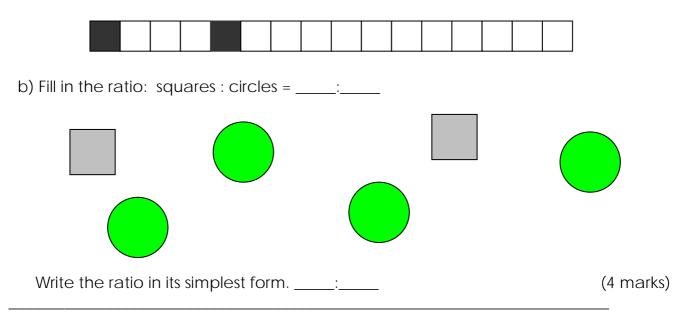
- d) Work out the area of the whole room.
- Ans\_\_\_m<sup>2</sup> (4 marks) 4. From the set (15, 23, 32, 36, 1010), write: a) a prime number \_\_\_\_\_ b) a square number \_\_\_\_\_ c) a multiple of 8 \_\_\_\_\_ d) an odd number which is not prime \_\_\_\_\_ e) the largest number in words\_\_\_\_\_\_

(5 marks)

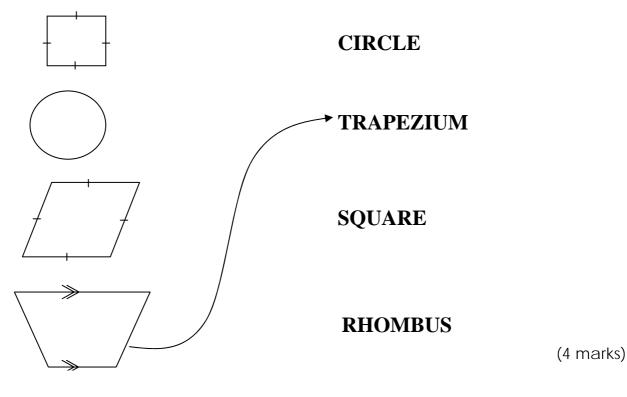
Ans\_\_\_\_m<sup>2</sup>



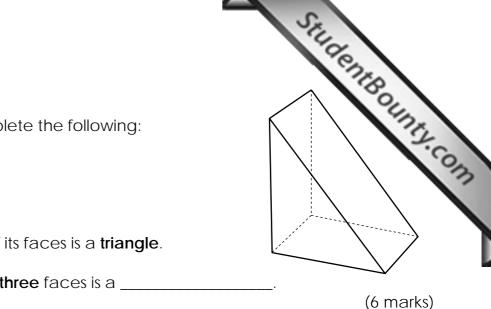
6.a) The ratio black squares : white squares is 1:3. Continue the pattern.



7. Match the following shapes with the correct name:



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8. Look at the **solid** and complete the following:

- a) It has \_\_\_\_\_ faces.
- b) It has \_\_\_\_\_ edges.
- c) The shape of \_\_\_\_\_ of its faces is a triangle.
- d) The shape of the other three faces is a \_\_\_\_\_

9. A number of children were asked what fruit they like best.

FRUIT	FREQUENCY
Apple	4
Banana	5
Orange	2
Pear	3
Plum	1

- a) Find the total number of children asked.
- b) How many children chose bananas?

How many children chose pears? \_\_\_\_\_

c) Put the fruit in order of popularity starting with the least popular.

d) Which is the mode?

(5 marks)

STEL	
10. The diagram shows triangle ABC.	HentBounty.com
a) Which is the largest angle A, B or C?	ellip
	-con
$\angle C = $ A A	
$\angle A + \angle B + \angle C = $ °	C
	(5 marks)
11. a) Give a rough estimate for: 108.5 ÷ 24.01	
	Ans:
b) Use your calculator to work out the value of: 108.5 ÷ 24.01 correct to 1 decimal place.	
	Ans:
c) Write down the difference between your answer in (a) and that in	n (b).
	Ans:
	(6 marks)
12. a) Fill in:	
10C = <u>%</u> of €1 67C = <u>%</u> of €1	
b) How much is (i) 20% of 150 kg?	
	Ans:
(ii) <sup>1</sup> ⁄ <sub>2</sub> of 36.52m?	
	Ans:
	(6 marks)
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StudentBounty.com 13. A 1 litre jug is full of water. I fill one glass. How much water is left in the



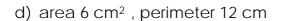
a) What is the total number of glasses that can be filled from one jug? \_\_\_\_\_

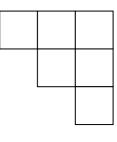
b) How much water is left in the jug? \_\_\_\_\_cm<sup>3</sup> (3 marks)

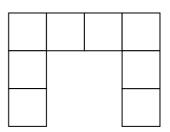
#### 14. Match each shape to its correct description. Each square measures 1 cm by 1cm.

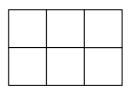
- a) area 6 cm<sup>2</sup>, perimeter 10 cm
- b) area 8 cm<sup>2</sup>, perimeter 18 cm

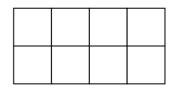
c) area 8 cm<sup>2</sup>, perimeter 12 cm





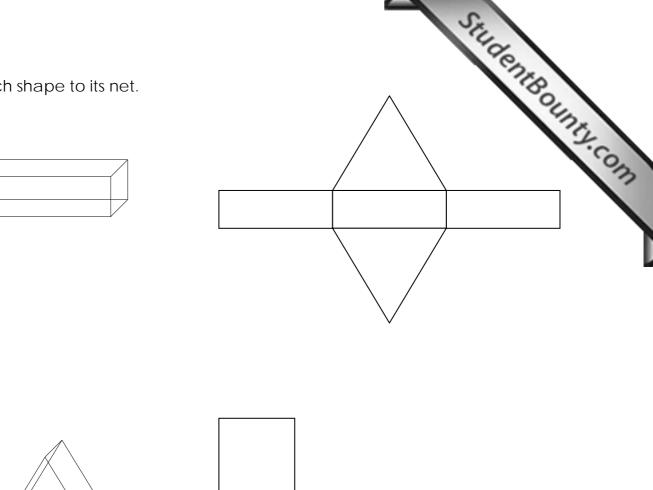


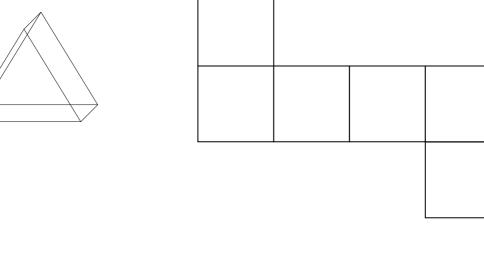


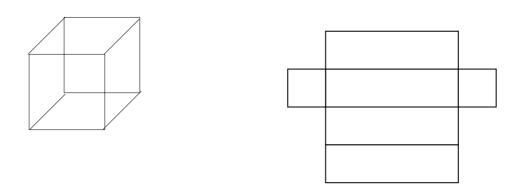


(4 marks)

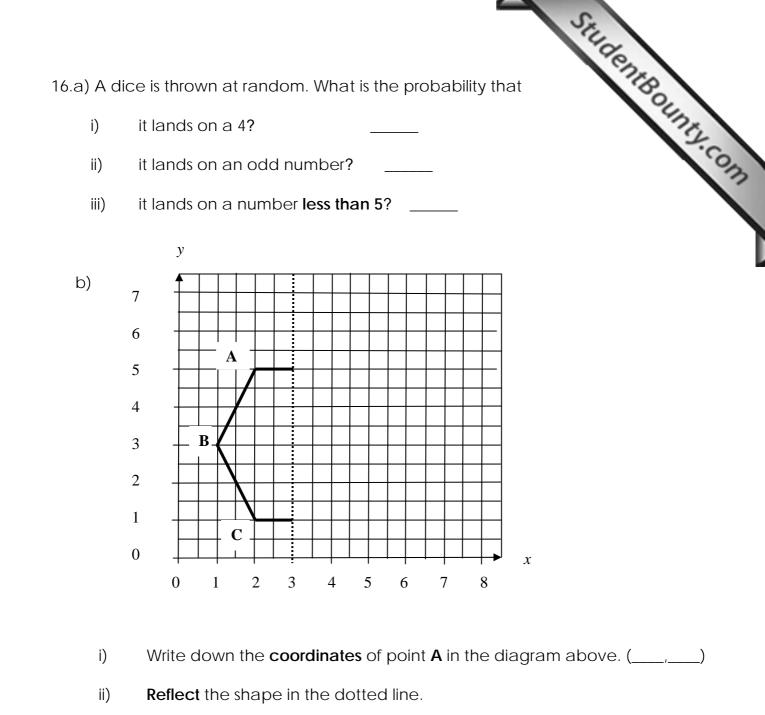








(3 marks)



(9 marks)

# **End of Paper**