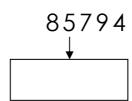
### SECONDARY SCHOOL ANNUAL EXAMINATIONS 2010

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FORM 4			N		HEM No	[AT]	ICS S		EME			TIME	: 30 r	ninut	es C	OM
Name:								_				Class:				1
_	estion   Mark	1	2	3	4	5	6	7	8	9	10	Total				

### **Instructions to Candidates**

- Answer ALL questions.
- This paper carries a total of 20 marks.
- Calculators and protractors are not allowed.

1. Write down the **value of 5** in this number:



(1 mark)

Student Bounts, com

2. Arrange in order of size, starting with the **smallest**.

1936

169.3

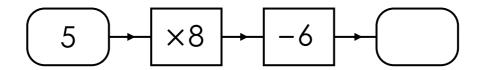
1639

(2 marks)

3. Subtract:

(2 marks)

4. **Complete** the function machine.



(1 mark)

5. Work out:  $\frac{3}{5} \times \leq 35$ 

€\_\_\_\_\_

(2 marks)

47

48

49

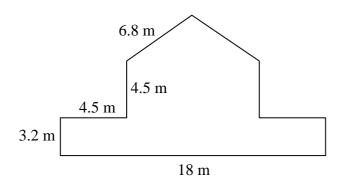
Even number

StudentBounts.com Square number

Prime number

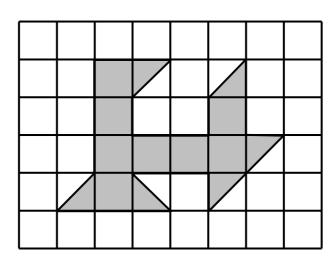
(3 marks)

This shape is **symmetrical**. 7. Work out the **perimeter** of this shape.



(3 marks)

Each side of a square is 1 cm. 8. Find the area of the shaded shape.



a) 
$$29 - 5 \times 4$$

b) 
$$(-20) \div 5$$

Student Bounts, com

(2 marks)

10. A school bus makes the same trip each day.In 9 days this school bus covers 441 km.Work out the length of each trip.



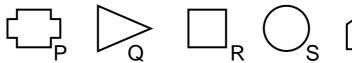
(2 marks)

**End of Paper** 

## SECONDARY SCHOOL ANNUAL EXAMINATIONS 2010

		4			M	ATH	IEM			SCHI aper	EME	D			S 2010	E: 1h 3	30mir
uestion	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total Main	Non Calc	Globa Mari
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1. d	a) i) ii)	<b>Rour</b> 12.45	and m  1d th  55 cc  3 co	e fo	ollow	ving  2 d	nur l <b>eci</b> i	nbe mal	rs: plac n:		but all	l nece	essary	worl	king mu	ist be sl	iown.
1. d	a) i) ii) b)	<b>Rour</b> 12.45 1419	and m  nd th  55 cc  3 co	e fo	ollow	ving  2 d	nur l <b>eci</b> i	nbe mal	rs: plac n:		but all	l nece	essary	worl	king mu	ist be sl	nown.

# 3. a) Look at these shapes:





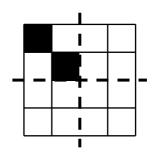






Fill in:

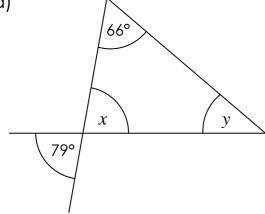
- Student Bounty Com Shapes \_\_\_\_\_ and \_\_\_\_ have only one line of symmetry.
- ii) Shape \_\_\_\_\_ has only two lines of symmetry.
- b) The dotted lines are mirror lines. Complete the pattern.



(4 marks)

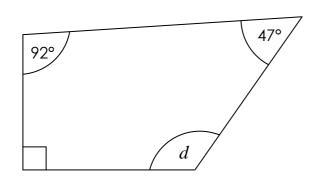
4. Work out the values of the angles marked x, y and d.

a)



x = and y =

b)

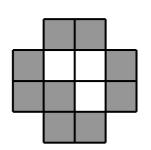


*d* = \_\_\_\_\_

Name			
Name	 	 	

Class

5. a) Look at the shape.



Student Bounty.com What **fraction** of the shape is **shaded**? Give your answer in its **simplest form**.



ii) What percentage of the shape is shaded?



b) Make equivalent fractions:

$$\frac{3}{21} = \frac{}{7}$$

$$\frac{11}{21} - \frac{1}{7}$$

(8 marks)

6. a) Arrange the following numbers in order largest first:

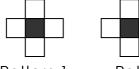
54

54.19

54.9

54.29

b) Look at these patterns:

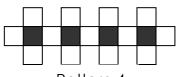


Pattern 1



Pattern 2





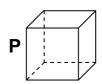
Pattern 4

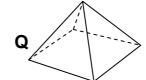
Draw Pattern 3.

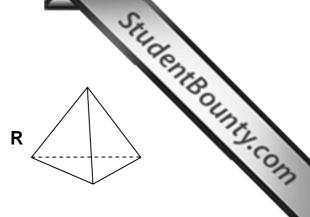
ii) Fill in:

Pattern 6 has \_\_\_\_\_ black squares and \_\_\_\_ white squares.

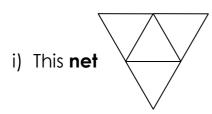
## 7. a) Look at these shapes.





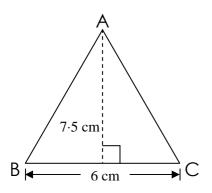


Fill in:



is the net of shape \_\_\_\_\_ (P, Q, R)

- ii) Shape **P** has 12 edges, 8 vertices and \_\_\_\_\_ faces.
- b) Work out the **area** of the triangle ABC. **Area of a triangle** =  $\frac{1}{2}$  bh



\_\_\_\_\_ cm<sup>2</sup> (5 marks)

8. Fill in the blanks using the following words. Each word can be used **only once**.

certain

impossible

likely

unlikely

- a) There are 60 minutes in 1 hour.
- b) My father will give me €1 000 000 tomorrow.
- c) I am 10 years older than my mother.
- d) I will score more than 2 on a dice.

ii) Margaret and Frank share a 2000 **ml** bottle of water between them in the ratio of 3:2.

Work out how much water each take.

Margaret: \_\_\_\_\_ **ml** 

Frank: \_\_\_\_\_ **ml** 

b) i) A waitress is paid €150 for 3 weeks of work.

How much does she receive for 1 week of work?

€\_\_\_\_\_

ii) How much does she receive for 7 weeks of work?

€ \_\_\_\_\_(10 marks)

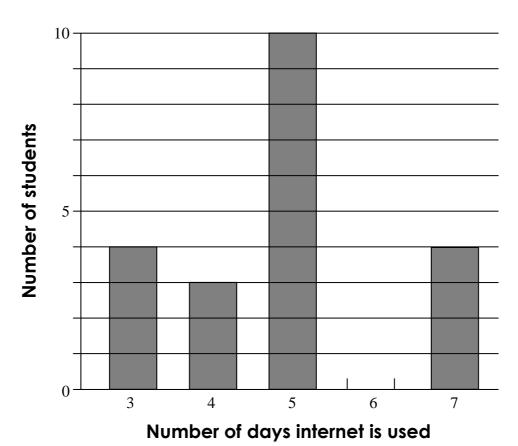
10.a) i) Draw the hands of the clock to show 7:15 pm.



- ii) Write 7:15 pm in 24-hour time.
- b) An aeroplane leaves Malta at 4:30 pm and arrives in Berlin at 7:15 pm.

Work out the length of the flight.

Number of days internet is used	Number of students
3	4
4	
5	10
6	9
7	4

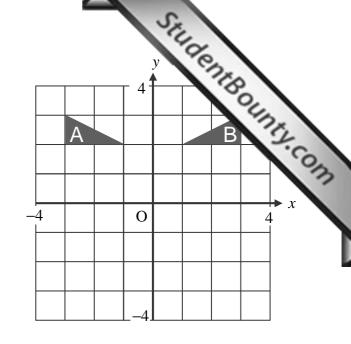


- a) Complete the table.
- b) Complete the graph.

Fill in:

- c) i) The **total number** of students in the class is \_\_\_\_\_.
  - ii) There are \_\_\_\_\_\_ students who use the internet for more than 5 days in a week.

- 12. a) Fill in:
  Shape **B** is a \_\_\_\_\_
  (translation, reflection, rotation)
  of Shape A.
  - b) Translate Shape **B** 3 units to the left and 5 units down.



(4 marks)

13. a) Simplify: 
$$5a - 9b - 2a + 2b + 4a + 3c + 6c$$

b) Find the value of y: 5y + 12 = 47

c) If p = 3 and q = 4 find the value of: 7p - 3q

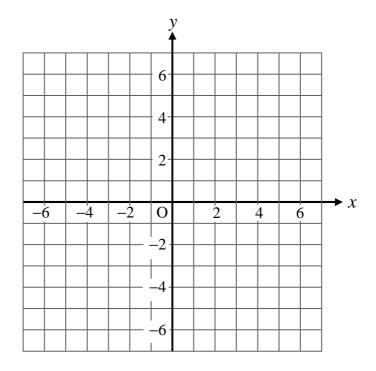
d) Expand: 4(3m - 7)

(10 marks)

14. a) Fill in the table for the graph y = x + 2.

ak	ole for the	graph y =	= <i>x</i> + 2.		StudentBoy
	X	-6	1	4	The state of
•	+2	+2	+2		OH
	y = x + 2	-4		6	

Use your table to plot the graph y = x + 2 on the grid. b)



c) Use your graph to fill in:

i) When 
$$x = -2$$
,  $y = ____$ 

ii) When 
$$y = 4$$
,  $x = _____$ 

(6 marks)

**End of Paper**