SECONDARY SCHOOL ANNUAL EXAMINATIONS 2011

			Е	ducation	al Assess	sment Un	it) minute
FORM 5					ATICS alculato			TI	ME: 20) minute
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 **Underline** the correct day of the week.

28th August 2012 will be a

Monday

Tuesday

Wednesday

Thursday

^	veek.					SIL	iden	BOUNTY.COM
		S	epte	embe	er 20	12		THAT
	S	M	T	W	T	F	S	S.
				_		_		7
	2 9	3	4	5	6	7	8	
	9	10	11	12	13	14	15	
	16	17	18	19	20	21	22	7
	23	24	25	26	27	28	29	
	30							•

(1 mark)

a) Complete the table. 2

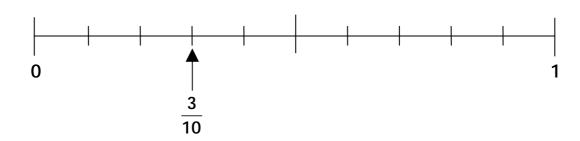
Freezer temperature	Room temperature	Difference
−12 °C	18 °C	

The temperature of the freezer goes down by 5°C. b)

New temperature in freezer = _____ °C.

(2 marks)

On the number line **mark** the fractions $\frac{2}{5}$ and $\frac{7}{10}$. 3

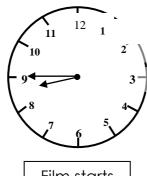


(2 marks)

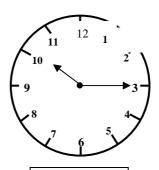
b) Find the value of the expression when s = 6 and w = 2.

Student Bounty.com (2 marks)

5



Film starts



Film ends

Fill in:

- a) The film starts at quarter to 9 and ends at ______ 10.
- b) The film is ______ hours long.

(2 marks)

Alan sat for 5 mathematics tests. These are his marks. 6

76

52

85

64

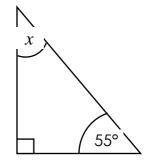
70

- a) **Median** mark = _____
- b) **Range** = _____

(2 marks)

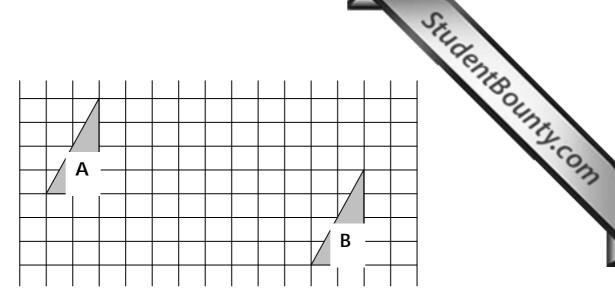
7 Work out the value of the angle marked x.

Angle *x* = _____



(2 marks)

8



Underline the correct words.

Triangle B is a (translation, reflection, rotation) of triangle A by moving ten squares (right, left) and (two, three, four) squares down.

(2 marks)

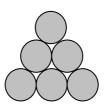
9 This is a pattern made up using balls.



Pattern 1



Pattern 2



Pattern 3

Pattern 4

- a) Draw the next pattern.
- b) _____ balls are needed to draw Pattern 6.

(2 marks)

10 Match correctly the values of column A with those of column B. The first one is done for you.

A $\frac{3}{4} \times 20$ $6 + 2 \times 4$ 25% of 40 2^3

В

(3 marks)

SECONDARY SCHOOL ANNUAL EXAMINATIONS 2011

Directorate for Quality and Standards in Education Educational Assessment Unit

FORM 5

MATHEMATICS SCHEME D Main Paper

NS 2011
TIME: 1h 40min

1	2	3	4	5	6	7	8	9	10	11	12	13	NC	Main	Total

Name:

Class:

Calculators are allowed but the necessary working must be shown.

Answer all questions.

- 1 Fill in:
 - a) 64 kg = _____ grams
 - b) 9 minutes = _____seconds
 - c) _____ km = 3000 metres

(3 marks)

2 Complete the LOGO statement to draw the letter H

PD

FD 200 BK _____ RT 90

FD 75 LT

FD 100 BK

PU HOME

(3 marks)

Student Bounty.com 23 Use the given set of numbers above and choose:

- the **smallest odd** number a)
- the **largest even** number b)
- a square number C)
- a prime number d)
- a multiple of 9 e)

(5 marks)

Fill in. 4 a)

b) Fill in:

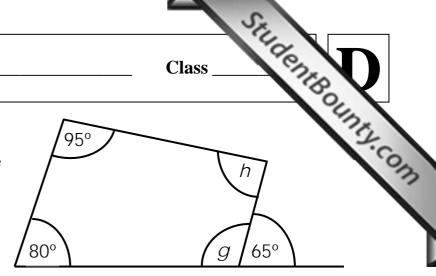
c) Work out **80%** of **€45**.

(6 marks)

Name		
- 100	 	

Class_

5 The diagram shows the angles of a quadrilateral.



- a) **Fill in:** *g* = _____.
- b) The angles on a **straight line** add up to _____.
- c) **Fill in**: *h* = _____.
- d) The **sum of the angles** in a quadrilateral is ______.

(6 marks)

An aeroplane leaves Malta at 11.45 a.m. 6 The trip to Milan takes 21/2 hours.



- a) Fill in:
 - The trip takes _____ minutes. i)
 - ii) The aeroplane arrives in Milan at _____ p.m.
- b) Write the arrival time using the 24-hour clock.

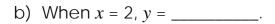
Arrival time = _____ : _____

(6 marks)

7	Ас	car costs €9600 .	Childonnia
	Ма	aria pays half the cost as deposit .	
	a)	Deposit = €	€9600
	b)	She pays €150 every month for 3 years.	
		i) Fill in : There are months in 3 years.	
		ii) Work out the total amount of the monthly payments .	
		Total amount = €	
		iii) How much does it cost Maria to buy the car?	
		€	(8 marks)
8	a)	Simplify the following ratios.	(6 1116116)
		i) 150 g : 900 g ii) 80 cm : 4 m	
	b)	John and Andrew have 180 marbles altogether. The marbles John: Andrew = 2:3. Work out the number of meaning John and Andrew have.	
		John has	marbles
		Andrew has	marbles
			(8 marks)

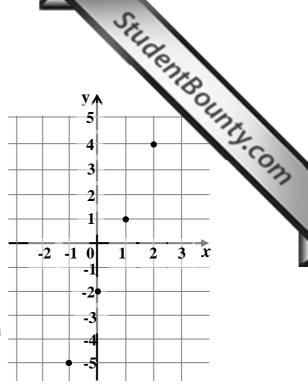
9 The graph shows points plotted for the equation y = 3x - 2.





c) When
$$y = -5$$
, $x = _____$.

d) (_____, ____) is **another** coordinate of a point which is on the line.

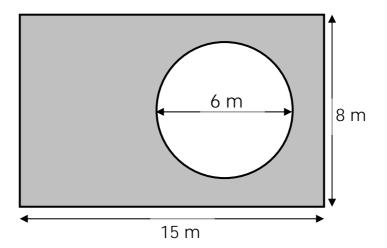


(6 marks)

10 Underline the correct **number** for the properties of each shape. The first one is done for you.

SHAPE	SHAPE NAME		SUM OF INTERIOR ANGLES	NUMBER OF DIAGONALS	
	Rectangle	(0, 1, 2 , 3)	(180°, 360° , 540°)	(0, 1, 2 , 3, 4)	
	EQUILATERAL TRIANGLE	(0, 1, 2, 3)	(180°, 360°, 540°)	(0, 1, 2, 3, 4)	
	ISOSCELES TRIANGLE	(0, 1, 2, 3)	(180°, 360°, 540°)	(0, 1, 2, 3, 4)	
	Кіте	(0, 1, 2, 3)	(180°, 360°, 540°)	(0, 1, 2, 3, 4)	
	RHOMBUS	(0, 1, 2, 3)	(180°, 360°, 540°)	(0, 1, 2, 3, 4)	

(6 marks)



- a) The radius of the circle is _____ m.
- b) Use $A = \pi r^2$ to work out the **area** of the swimming pool correct to the nearest m².

Area of swimming pool = _____ m²

c) Work out the area of the rectangular swimming area.

Rectangular area = _____ m²

d) Work out the **shaded** area correct to the nearest m².

Shaded area = _____ m²

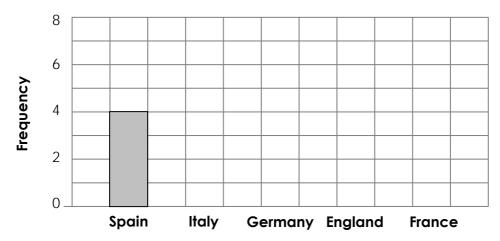
(8 marks)

	s were asked		-	at they would	THEOUN.
Spain	Italy	Germany	Italy	England	C.Com
England	Germany	England	Spain	Italy	
Italy	Italy	Germany	England	Italy	
France	Spain	Spain	Italy	England	

a) Complete the frequency table.

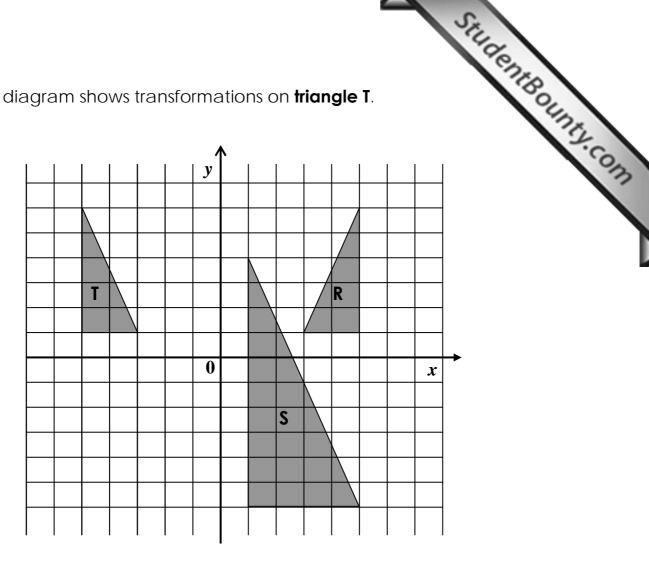
Country	Frequency
Spain	4
Italy	
Germany	
England	
France	
Total number of students	

b) Complete the bar chart.



A student is chosen at random. Write down the probability that the student chooses Spain. (Write your answer as a fraction in its lowest terms).

(11	marks)



- a) Fill in:
 - i) Triangle **R** is a _____ of triangle **T** in the **y** axis.
 - ii) Triangle **S** is an **enlargement** of triangle **T** by **scale factor** ______.
- Triangle **T** is **reflected** in the x axis. b)

Draw the new triangle on the diagram.

(4 marks)

END OF PAPER