DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION

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FORM 2 MATHEMATICS SCHEME B Non Calculator Paper										utes	
Nam	ne:							Class	:		
	Question	1	2	3	4	5	6	7	8	Total	
	Mark										

Instructions to Candidates

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

1. Arrange the following numbers in order, largest first.

0.07 , 0.7 , 0.27 , 0.72 , 7.2 , 2.7

(1 mark)

2. Which three of the following are equivalent to $\frac{3}{4}$?

 $\frac{4}{3}$, $\frac{6}{8}$, 34%, 75%, $\frac{21}{28}$, 3.4

(3 marks)

3. Work out as **decimals**:

a)
$$\frac{139}{100} =$$

b) $0.075 \times 100 =$ _____

c) 1 - 0.88

d) $(2.46 + 1.58) \div 4$

Ans:_____

Ans:

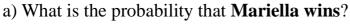
____(5 marks)

- 4. Fill in the blanks with the following numbers: 2, 3, 4, 12, 24
 - a) ____ and ___ are multiples of 6.
 - b) ____ and ___ are factors of 6.

_(3 marks)

c) The LCM of ____ and 5 is 20.

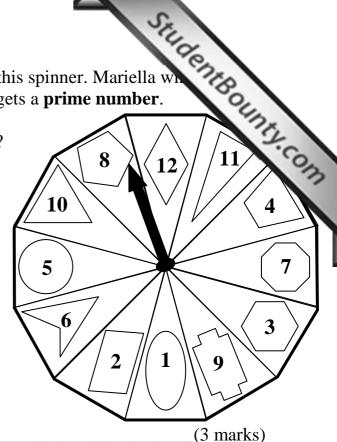
5. Mariella and Fleur are playing a game using this spinner. Mariella was gets a **quadrilateral** while Fleur wins if she gets a **prime number**.



b) What is the probability that **Fleur wins**?

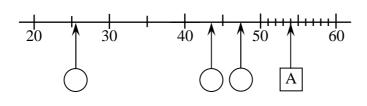
c) Underline the shape which gives a win to **both players**.

Rhombus, Parallelogram, Trapezium.



- 6. a) **Shade** the circle which shows 43.7.
 - b) Write down the value indicated by the square marked A.

Ans: _____



_(2 marks)

7. a) Round the following numbers correct to **1 decimal place**.

(i)
$$9.0543 \rightarrow$$

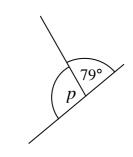
(iii)
$$0.51 \rightarrow \underline{\hspace{1cm}}$$

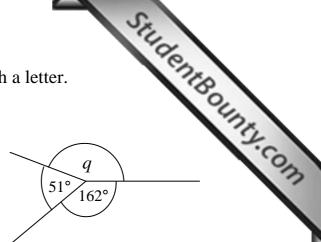
b) Use your answers in (a) to **estimate** the value of:

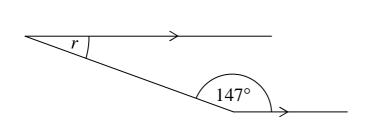
$$9.0543 + 6.198 \times 0.51$$

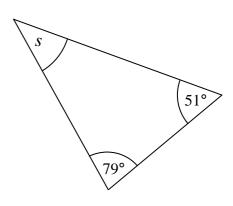
Ans:

(4 marks)









Ans: $p = _____$

q =_____

r = _____

s = ____

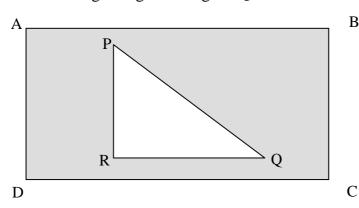
_____ (4 marks)

END OF PAPER

DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION

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FORM				N	/IA I	HEN	HEMATICS SCHEME B Main Paper							TIME: In Sumin		
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Mark																
·					DO	NOT	WR	ITE A	ABOV	VE TI	HIS I	INE				
Name:										-		Cla	ss:			
1. Use	e you		culat	or to	work	ANS	SWE	R AI	LL Q	UES'						SHOWN.
(a)															Ans:	
	/ <u>9.0</u>			1 1	•		ace									
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(b)						•	place	s.							Ans:	
(b)						•		S.								

Student Bounty.com The diagram shows a right-angled triangle PQR drawn inside a rectangle ABCL 2.





$$AB = \underline{\hspace{1cm}} cm \quad ; \quad BC = \underline{\hspace{1cm}} cm$$

$$PR =$$
_____ cm ; $QR =$ ____ cm ; $PQ =$ ____ cm

- (b) Use your measurements to calculate:
 - (i) the **perimeter** of the **rectangle**.

(ii) the area of the rectangle.

(iii) the area of the triangle.

(iv) the **shaded** area.

(9 marks)

Name		
maine	 	

3.

(a) **Simplify**: 4a + 3a + 2a

(b) **Expand**: 4(3y - 1)

Ans: _____

Student Bounty.com Ans: _____

(c) If A = 2x - y

(d) **Solve** the equation: 3x + 12 = 27

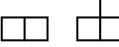
Calculate A when x = 3 and y = -2.

Ans: A = _____

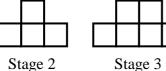
Ans: x =_____

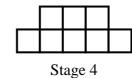
_____(7 marks)

This pattern is made of squares. Each square has an area of 5 cm². 4.



Stage 1





Stage 5

- (a) Draw the missing pattern in stage 5.
- (b) Complete the table.

Stage	Number of squares	Area in cm ²
1	2	10
2	4	20
3	6	
4		
5		

_____(5 marks)

- 5. Anne sits for 7 examinations and scores the following marks: 23, 60, 65, 67, 6
 - (a) What is the **median** mark?

Ans: median =

(b) Calculate the **mean** mark.

Ans: mean = _____

(c) What is the **mode**?

Ans: mode = _____

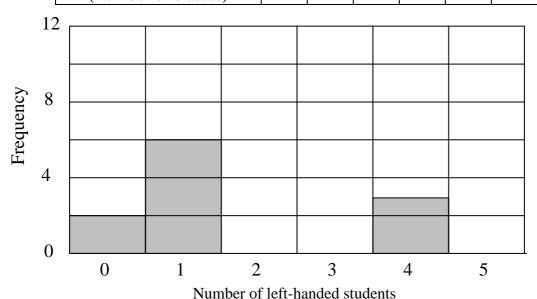
(d) Underline the correct word:

The (median, mean, mode) best represents all of Anne's scores.

______(5 marks)

6. A survey on all the classes at a school is carried out to find the number of left-handed students in each class. Complete the frequency table and the bar chart below that show the results.

Number of left-handed students	0	1	2	3	4	5
Frequency (Number of classes)	2		12	9		1



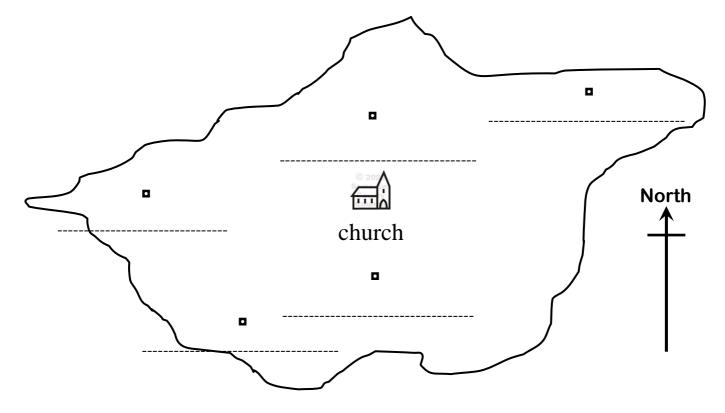
_____(5 marks)

Name	Class
Name	Class

7.

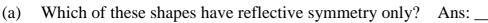
Student Bounty.com This is a map of a village with a church, a pharmacy, a school, a bank, a council hall an a shopping centre.

- The church is South of the school and North of the pharmacy.
- The bank is West of the church and NW of the council hall.
- The shopping centre is NE of the pharmacy.
- (a) Write down these six places on the map.



(b) Write down the **three-figure bearing** of the shopping centre from the pharmacy.

Ans:	O
71115.	

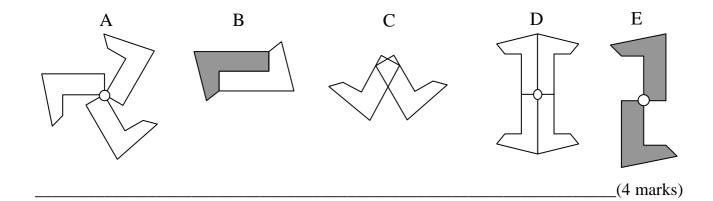


- Which of these shapes have rotational symmetry only? (b) Ans:
- Student Bounty.com Which of these shapes have **both** reflective and rotational symmetry? (c)

Ans: _____

Which of these shapes have **neither** reflective nor rotational symmetry? (d)

Ans: _____



- 9. 3750 persons attended a concert. 24% were adults, 62% were youths and the rest were children.
 - (a) What **percentage** were children?

Ans:_____%

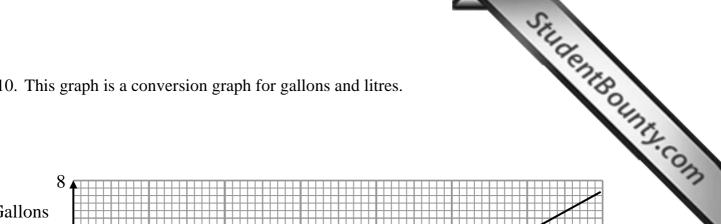
(b) **How many** were adults?

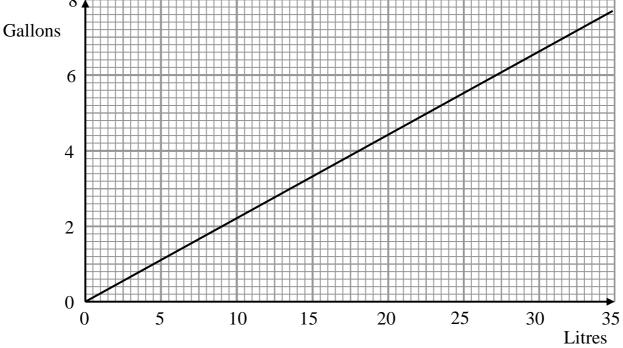
Ans:____adults

(c) **How many** were children?

Ans:_____children

(5 marks)





Use this graph to:

(a) Convert **5 gallons** into litres.

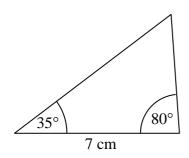
Ans: _____ litres

(b) Convert 20 litres into gallons.

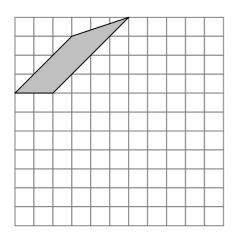
Ans: _____ gallons

(4 marks)

(a) Use **ruler** and **protractor only** to make an accurate drawing of this triangle:



(b) Translate the quadrilateral 4 right and 5 down.



_____(6 marks)

- 12. Martin is 6 years old, Ralph is 18 years old and Brian is 30 years old.
 - (a) **Simplify** the ratio:

6:18:30 = ____: ___: ___:

(b) Divide €288 between Martin, Ralph and Brian in the ratio of their ages.

Ans: Martin gets €_____

Ralph gets €_____

Brian gets €_____

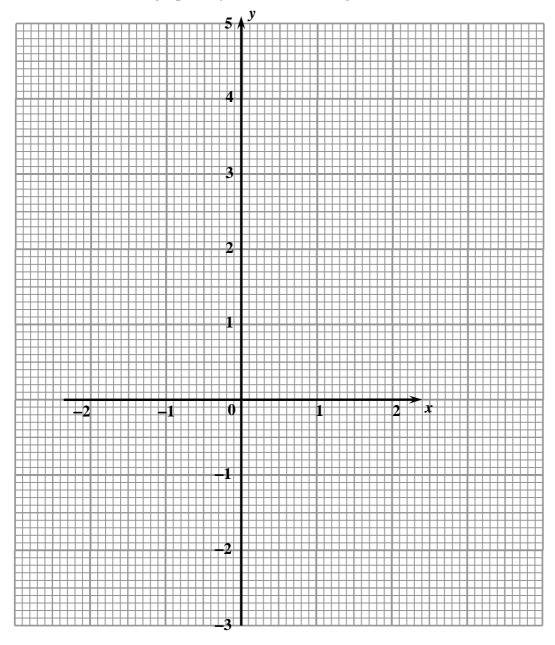
_____(7 marks)

13.

(a) Complete the table for y = 2x + 1.

x	-2	-1	0	1		8	
2x		-2			4	14	1
-1		+1		+1		T.BOUL	2.0
y		-1			5	`	1

(b) Draw the graph of y = 2x + 1 on the grid below.



(c) Write down the value of y when x = 1.5.

Ans:	ν	=		
	,		 	

_(6 marks)