FORM 2MATHEMATICS (Non Calculator Paper)TIME: 30 minutes

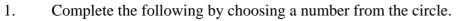
Name:	

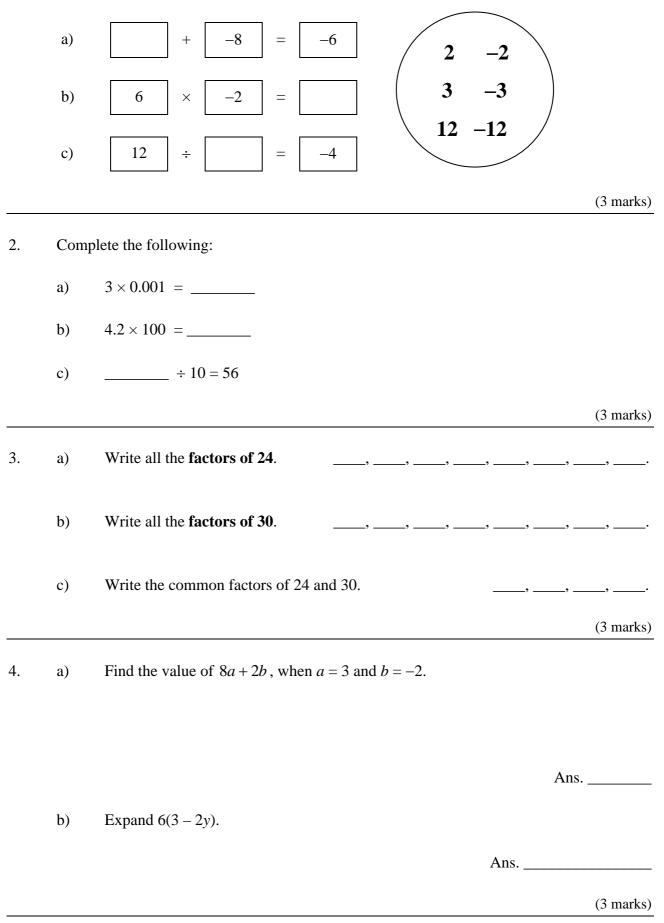
Class:

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.





5.		agram shows a parallelogram A gle ADE.	ABCD and	/	A 7 cm	 }	В
	a)	Find the area of triangle ADE	Ε.	E E	6 cm	D	8 cm C
						Ans	cm ²
	b)	Find the area of parallelogra	m ABCD.				
						Ans	cm ²
							(2 marks)
6.	Five at	thletes took part in a long jump	competition. Th	ne resul	lts obtain	ed were a	as follows:
		NAME	DISTAN	CE in	metres		
		Attard Martina	2	4.97			
		Darmanin Elaine	1	5.53			
		Gatt Janet		5.32			
		Izzo Petra	2	4.85			
		White Nicole	4	5.07			
	a)	Who jumped the longest dista	nce?		Ans		

	b)	What is the median distance?	Ans
	c)	What is the range ?	Ans(3 marks)
7.	a)	Which of these fractions is less than $\frac{1}{2}$? $\frac{16}{28}$ $\frac{23}{15}$ $\frac{40}{88}$ $\frac{60}{72}$	Ans
	b)	Philip had 96 days of summer holidays. He spent $\frac{3}{8}$ of his summer holidays in Italy. How many days did he spend in Italy?	
			Ans days

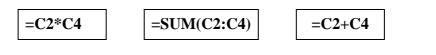
Ans. _____ days (2 marks)

8.	A choa	colate box has the shape of a cuboid. Calculate the volume of the chocolate box.	5 cm Thecolate Delights 10 cm
			Ans cm ³ .
	b)	The chocolates inside the box weigh 300 g. One cl How many chocolates are there inside the box?	hocolate weighs 15 g.
			Ans chocolates
			(2 marks)
9.	Jake p	contains 2 red buttons, 3 yellow buttons and 4 gree icks a button from the bag. is the probability that the button is red ?	en buttons.
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Ans
			(1 mark)

10. Ms Tonna uses a spreadsheet to keep a record of the number of students attending the Computer, Drama and Sports Clubs on Monday and Tuesday.

	Α	В	С	D
1		Monday	Tuesday	Club Total
2	Computer Club	29	25	54
3	Drama Club	27	34	
4	Sports Club		58	104
5	Day Total			

- a) On the spreadsheet, fill in cells **D3** and **B4**.
- b) Ms Tonna wants to know the total number of students attending a club on Tuesday.Which one of the following formulae should she type in cell C5?



Ans. _____

(3 marks)

END OF PAPER

MATHEMATICS(Main Paper) TIME: 1h 30 min

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	Total Main	Non Calc	Global Mark
Mark																

Name: _____

FORM 2

CALCULATORS ARE ALLOWED BUT ALL NECESSARY WORKING MUST BE SHOWN.

ANSWER ALL QUESTIONS.

1. **Evaluate:**

a)

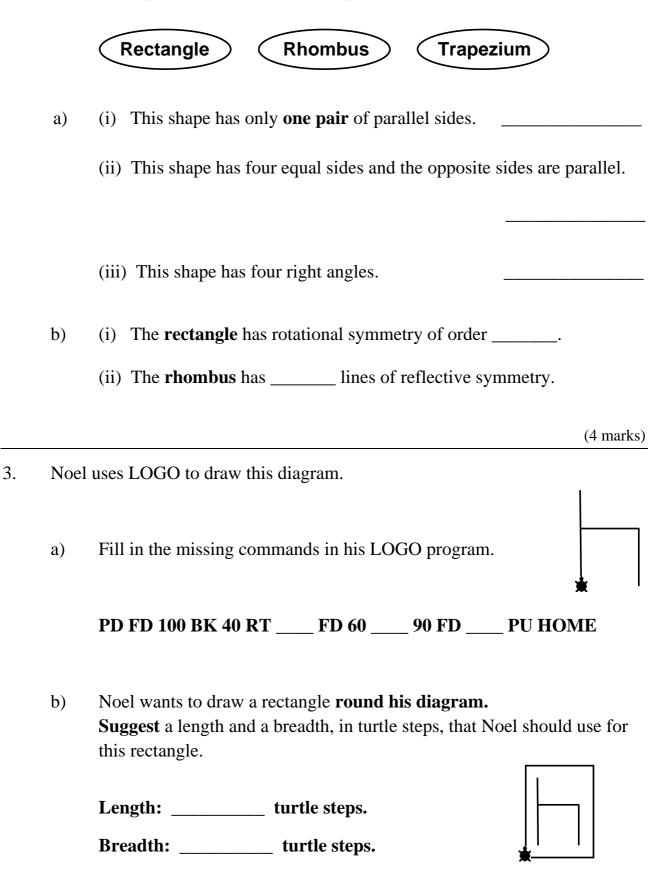
Ans. _____ $\frac{\sqrt{47.\overline{61}}}{4.6} =$ Ans. b)

 $7.5^{2} + 14.45 =$



Class:

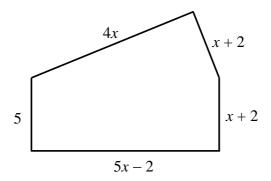
2. Match each quadrilateral with its description.



(5 marks)

Name:	Class:	B

4. All the sides of the quadrilateral are measured in centimetres.



a) Write an expression, in *x*, for the perimeter of this shape. Simplify the expression.

- b) The perimeter of the shape is 40 cm. Write an equation for the perimeter.
- c) Solve the equation.

x = _____

(5 marks)

5. Rachel bought five bottles of lemonade and a packet of crisps.One bottle of lemonade costs *x* cent and a packet of crisps costs 80 cent.



Which **one** of the following expressions represents the total cost of **five bottles of lemonade and a packet of crisps**? (Hint: Remove the brackets first)

$$5(x+80)$$
 $5(x+10) + 10$
 $5(x+20) - 20$

Ans. _____

(4 marks)

6. a) Dylan spends $\frac{2}{5}$ of his pocket money on chocolates, $\frac{11}{30}$ on football stickers and saves the rest. What fraction of his money does he save?

Ans. _____

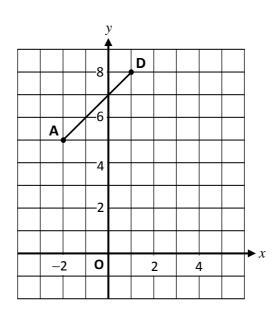
b) A mobile phone costs €156. During a sale, the price of the mobile phone went down by 25%. What is the sale price of the mobile phone?

€_____

(6 marks)

Name: Class: B	Name:	Class:	B
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7.

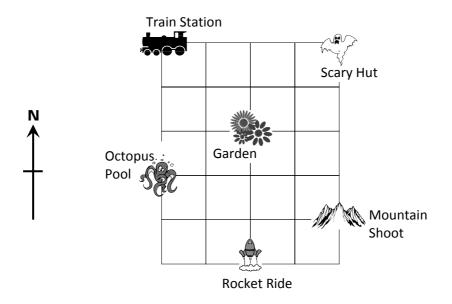


Fill in:

- a) The point **A** has coordinates (_____, ____).
- b) Plot and label point \mathbf{B} (1, 2) on the grid above.
- c) The points **A**, **B**, **C** and **D** form a square. Complete the square. Label point **C**.
- d) The coordinates of point **C** are (_____, ____).

(6 marks)

8. a) This is the plan of an adventure park.





(i) Scary Hut is due East of the _____.

(ii) The Mountain Shoot is due ______ of the Scary Hut.

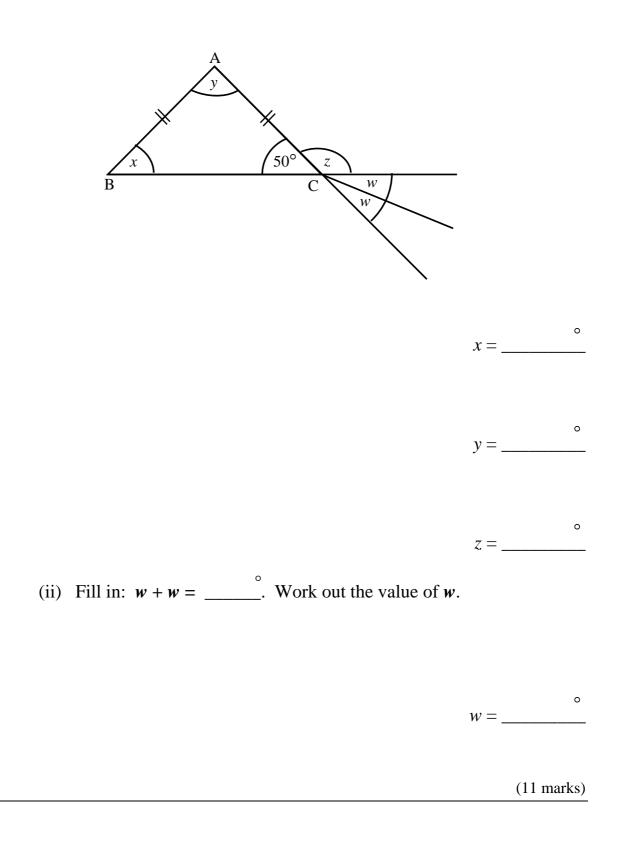
(iii) The three figure bearing of the Scary Hut from the Garden

is _____(045°, 060°, 090°).

(iv) The three figure bearing of the Rocket Ride from the Octopus Pool

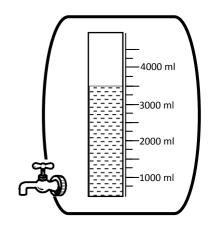
is _____ (045°, 135°, 270°).

- b) Triangle ABC is an isosceles triangle.
 - (i) Find the size of the angles marked with letters *x*, *y* and *z*.

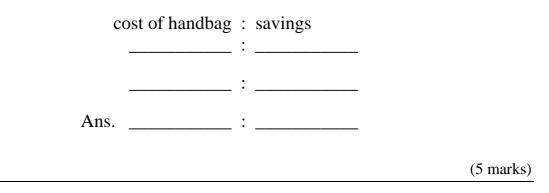


- (i) The tank in the diagram contains a) _ millilitres of oil.
 - (ii) The oil is poured into a **bottle** and into a **can** in the ratio 3 : 4.

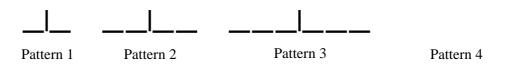
How many millilitres of oil are _____ ml there in the **bottle**?



b) A handbag costs €21. Katia has €252 saved. Write down the ratio of the cost of the handbag to Katia's savings. Write your answer in its simplest form.



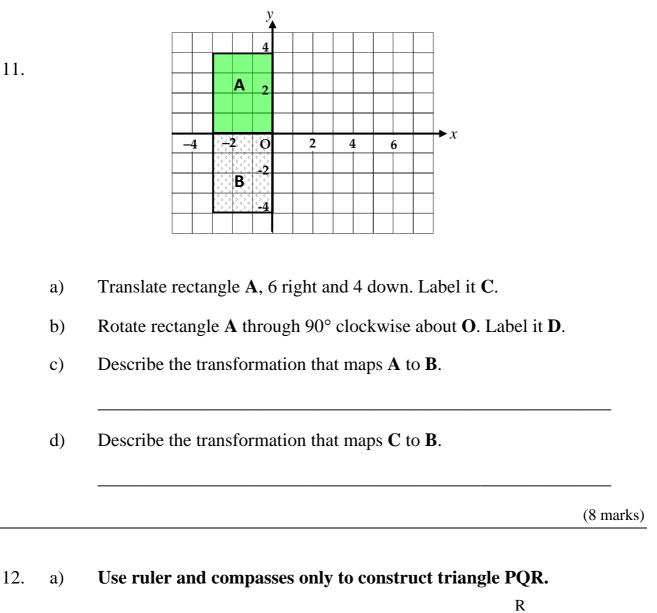
This is a pattern made using sticks. 10.

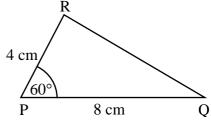


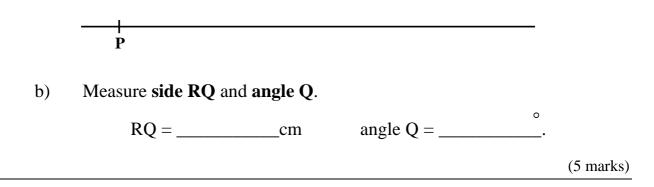
- Draw the 4th pattern. a)
- Complete the table below: b)

Pattern Number	1	2	3	4	5	8
Number of sticks	3					

9.







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13. Robert made a survey on the favourite bands of 40 students.

14 10 10 8 6 4 2 0 Blue D Dadas Cold Ice Fontanas Others Beans Bands

The bar chart represents some of his data.

a) Complete the frequency table below, showing the results obtained by Robert.

Band	Blue Beans	D Dadas	Cold Ice	Fontanas	Others	Total
Frequency		3				40

- b) Complete the bar chart for **Others**.
- c) What fraction of the students who took part in the survey chose Blue Beans? Give your answer in its simplest form.

Ans. _____

d) What is the **probability** that a student chooses **Fontanas** as her favourite band?

Ans. _____

(6 marks)

END OF PAPER