

Instructions to Candidates

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



c) Find the perimeter of triangle ABC.

_____ cm

(3 marks)



5. Given that: z = 4x - 3y, find the value of z when x = 8 and y = 10.

(2 marks)



(3 marks)

END OF PAPER

FORM 2 MATHEMATICS SCHEME C TIME: 1h 30min Main Paper															
Question	1	2	3	4	5	6	7	8	9	10	11	12	Total Main	Non Calculator	Globa Mark
Mark															
Name:									_			Cl	ass:		
Name: Ans This Calc show	wer a s pap culato wn.	all que er car ors an	estion ries 7 d ma	s. 75 ma thema	rks. atical	instru	ument	ts are	allow	ved bu	ıt all	Cl	ass: sary wo	rking must	be
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Name: Ans This Calc show 1. a) b)	wer a s pap culato wn. Wo The	all que er car ors an rk out	estion rries 7 d ma	s. 75 ma them 2.2 > a num	rks. atical × 41.	instr 8 ÷ 25. V	ument 120.' What i	ts are 7184	allow	ved bu	ıt all	Cl	ass: sary wo	rking must	be

- 2. In a class there are 24 students. 6 students live in Rabat, 8 in Hamrun and the rest in Valletta.
 - a) How many students live in Valletta?
 - b) What fraction of the students lives in Rabat?



c) Fill in the boxes in the Pie chart to show where the students live.

(6 marks)

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- StudentBounty.com An L-shaped solid is 25 cm long and is made up of two parts, A and B, as shown be 3. Work out the area of rectangle **A**. a) cm^2 $\int 2 \text{ cm}$ 7 cm Α b) Work out the area of rectangle **B**. 25 cm B 3 cm 1 cm cm^2 c) i) What is the volume of cuboid A? cm³ ii) What is the volume of cuboid B? cm³ What is the total volume of the solid? d) _cm³ (10 marks) In a garden there are 7 black puppies and 3 white puppies. 4. What is the probability that a puppy will be:
 - a) black
 - b) either black or white?

(4 marks)

Name:				Class:		(II)
a) Complete	e the following	table for the gra	aph y = x + 5.			
X	0	1	3	4	6	
у		6			11	
20						
						→ x
20 – 10 – 0 – 0 –	1 I I I I I I I			5	6	
20 10 0 c) From you i) the v	$\frac{1}{1}$	n x = 5.			y =	

6. Use **only** a ruler and compasses. On the given line mark point B such that AB = 10 cm. At A draw a line AC such that $\angle A = 90^{\circ}$ and AC = 5 cm. Join BC. Measure BC.

A

(6 marks)

- StudentBounty.com On the grid below, plot and label the points A (-5, 0); B (-2, 4); C (2, 4) and 7. a)
 - Join A to B, B to C, and C to D. b)
 - Use the *x* axis as a mirror line and draw the image of the shape you have drawn. c)
 - d) What is the name of this six-sided shape?



(10 marks)

- The diagram shows a picture in a frame. The picture is 16 cm long and 14.5 cm wide. 8.
 - a) Find the area of the picture.



The frame is 19 cm long and 17.5 cm wide.

b) Calculate the area of the frame with the picture.



c) The picture is taken out of the frame. Work out the area of the frame only.

cm²

cm²

(6 marks)

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9.	John wants to draw the square shown using LOGO. The perimeter of the square is 200 turtle steps. a) What is the length of one side of the square?
	turtle steps
	b) Fill in the blanks in the following commands so that the turtle draws the square.
	PD REPEAT [FD RT]
	(5 marks)
0.	The diagram shows the net of a solid shape.
	a) The solid shape is called a
	b) The solid shape has edges.
	c) The solid shape has faces.
	d) Each face has the shape of a (rectangle, cube, square, cuboid).
	The length of a side of each small square is 0.5cm.

	cm	

(6 marks)

Mrs Gatt used a spreadsheet to work out her shopping bill: 11.

frs Ga	tt used a spread	sheet to work out her	shopping bill:	
	A	B	C	D
1	Quantity	Description	Unit cost (€)	Cost (€)
2	2	Pizza	3.26	6.52
3	3	Packets of biscuits		2.46
4		Bars of soap	1.02	5.10
5			Total	

- a) Which one of the following formulae did Mrs Gatt type in cell **D2**? = A3*A2; = A2 + C2;=A2*C2; =A2 + A3
- b) Fill in cells A4 and C3 and write down the total in cell D5.

(4 marks)

12. Tom is using some sticks to make the patterns below.



Pattern 1

Pattern 2

Pattern 3

Pattern 5

a) Complete the table for Pattern 2 and Pattern 3.

	Pattern 1	Pattern 2	Pattern 3
Number of squares	1		
Number of sticks	4		

b) Draw Pattern 5.

c) How many sticks will Tom need for Pattern 5?

(7 marks)

END OF PAPER