	SECONDARY SCHOOL ANNUAL EXAMINATION Directorate for Quality and Standards in Education Educational Assessment Unit	NS 2010
FORM 5	MATHEMATICS SCHEME C Non Calculator Paper	TIME: 20 minutes
Name:		Class:
	Mark	

INSTRUCTIONS TO CANDIDATES

- Answer all questions. There are 20 questions to answer.
- Each question carries 1 mark.
- Calculators and protractors are not allowed.
- You are not required to show your working.
- However space for working is provided if you need it.

No.	QUESTION	SPACE FOR (IF REQUIR
1.	The volume of a cube of side 5cm is	13
	A) 25 cm^3 B) 125 cm^3 C) 15 cm^3 D) 10.5 cm^3 Answer:	SPACE FOR (IF REQUIR
2.	The value of 10.1×0.1 is	
	A) 101 B) 10.1 C) 1.01 D) 0.101 Answer:	
3.	Change $\frac{4}{25}$ into a percentage.	
	Answer:	
4.	Simplify $\frac{1}{4}$ of $\frac{1}{2}$	
	4 2 Answer:	
5.	The area of the rhombus shown is 160 cm ² . What is the area of the shaded triangle? Answer: cm ²	
6.	Kyle obtained 23, 17, 21, 19 and 40 in her Maths tests during the year. What was her average mark?	
	Answer:	
7.	In a box of 200 chocolates, 20% have a red wrapper. The rest have a silver wrapper. How many chocolates have a silver wrapper?	
	Answer:	
8.	Which is the largest number?	
	A) $\frac{5}{9}$ B) $\frac{2}{3}$ C) $\frac{7}{6}$	
	9 3 6 Answer:	

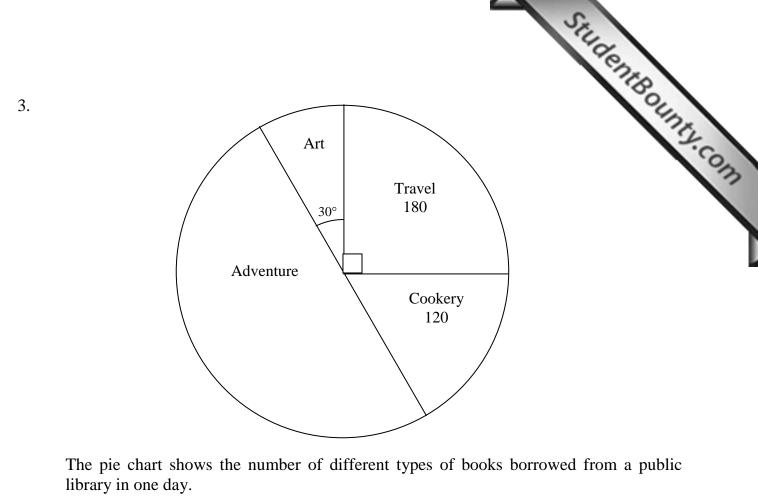
		StudentBount	
	In buys 16 postcards for ≤ 2 . How much must he pay for 8 steards?	180um	
	Answer:		4.com
10. Wh	nat is the sum of the exterior angles of a hexagon?		X
A)	180° B) 360° C) 720° D) 540°		l 1
	Answer:		
11. Giv	ven that $y = 4 - 12p$ what is the value of y when $p = 2$?		
	Answer:		
	nvest €2000 at 2.5% p.a. simple interest. Find the interest ned after 2 years.		
	Answer:		
	rite down the best estimate for the circumference of a circle radius 10 cm.		
A)	20 cm B) 310 cm C) 60 cm D) 190 cm		
	Answer:		
stue	ere are 250 students in a school. If 25 of these students dy French, what is the probability that a student who dies French is selected at random?		
	Answer:		
15. A s	square has an area of 16 cm^2 . What is the length of its es?		
	Answer: cm		

16.	Fred walked a distance of 1257 m. Write down the distance covered in metres correct to the nearest 10 metre.	StudentBounty.c
	Answer:	
17.	The turtle is at the START position shown. Sketch the figure drawn by the turtle for this set of LOGO commands:	
	PD RT 90 FD 100 LT 90 FD 200	*
18.	A tree T lies 100 m North of a church C. John walks 100 m due East from the tree. Which is the correct bearing of John from the church?	
	A) 100° B) 135° C) 045° D) 270°	
19.	Rotate the shape shown 90° anticlockwise about the origin O.	

SECONDARY SCHOOL ANNUAL EXAMINATIONS 2010

Directorate for Quality and Standards in Education Educational Assessment Unit

StudentBounty.com FORM 5 TIME: 1h 40mir **MATHEMATICS SCHEME C Main Paper** 7 9 10 12 NC 1 2 3 4 5 6 8 11 13 Main Total Name: _____ Class: **INSTRUCTIONS:** CALCULATORS ARE ALLOWED. SHOW ALL NECESSARY WORKING. **ANSWER ALL QUESTIONS.** 1. Work out the following to the nearest whole number: 56.56 × 62.71 = _____ (a) 234.56 ÷ 27.2 = (b) [4 marks] 2. Work out 7 cm (a) the area correct to 2 decimal places. 2.7 cm 6.5 cm Answer: ____ (b) the perimeter of the triangle. Answer: _____ [5 marks]

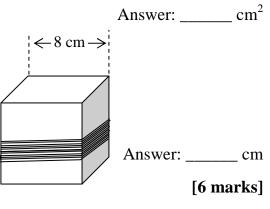


(a) How many Art books were borrowed?

Answer: _____ (b) How many Adventure books were borrowed? Answer: _____ What was the total number of books borrowed? (c) Answer: _____ Find the percentage of Travel books borrowed. (d) Answer: _____ [8 marks]

ame: Class:	C C C
 (a) Write down in the space provided the number of <i>small</i> so shown: 	uares in each of the shapes
Shape 1 Shape 2 1 Shape 2 6) What is the number of small squares for shape 5?	Shape 4
(b) what is the number of small squares for shape 5.	Answer:
(c) The rule for this pattern is: <i>add three to the term before in</i> What is the number of small squares for shape 7?	t.
	Answer:
	[6 marks]

(b) A string is wound exactly 10 times round a cube of side 8 cm. What is the length of the string?



(a) How much did Mr. Borg pay for the labour <i>without</i> VAT?	12 hours to hours
	Answer:
(b) How much did Mr. Borg pay in all <i>without</i> VAT?	
	Answer:
(c) How much VAT did Mr. Borg pay?	
	Answer:
	[6 marks]
 (a) Work out (i) The angle x. (ii) The angle y. (b) OAB is the sector of a circle centre O radius 9 cm. (i) Work out to one decimal place the area of the circle 	92° 56° x° A
(i) Work out to one decimal place the area of the circle. (<i>The area of a circle is</i> πr^2 .) Answer: cm ²	9 cm 0 B
(ii) Work out to one decimal place the area of the sector AOB.	
Answer:	cm^2

StudentBounty.com A story is 5100 words long. The word YOU is found 300 times in the story. 8. SKY is found 72 times.

(a) I pick a word at random. What is the probability that the word is YOU? (Give your answer in its simplest form.)

(b) The word YOU is removed from the story. How many words remain?

Answer: _____

Answer:

(c) After removing the word YOU, I pick a word at random. What is the probability that the word is SKY? (Give your answer in its simplest form.)

Answer: _____

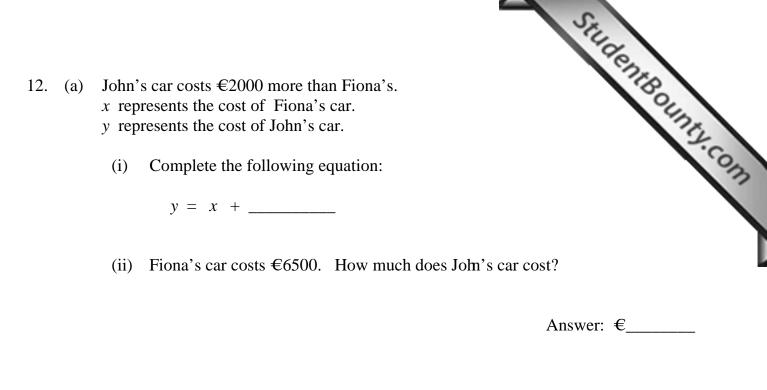
[5 marks]

9. Work out the value of the angles marked a, b, c and d. С d 75°, а b (a) angle *a* = _____ (b) angle *b* = _____ (c) angle *c* = _____ (d) angle d = _____

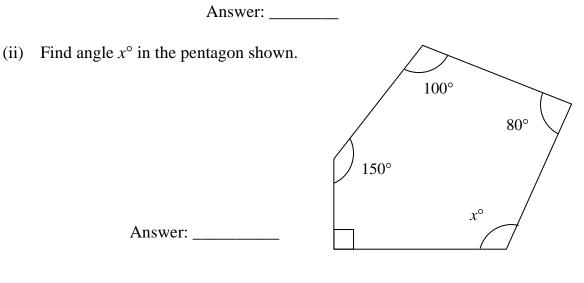
[8 marks]

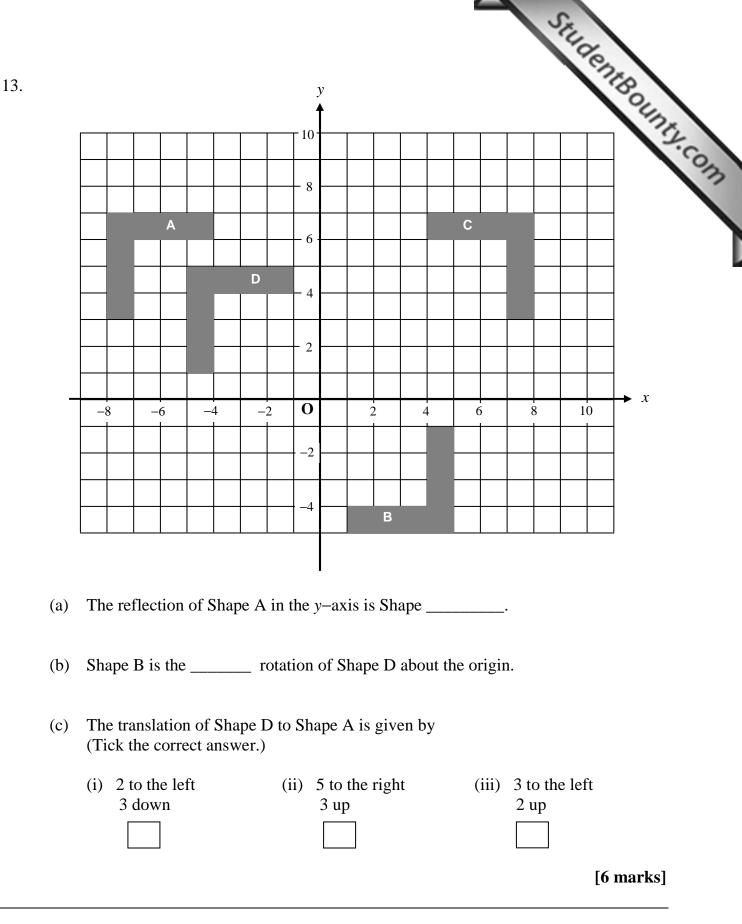
					Stilla	rec	
10.	(a)	Write down and simplify an expression for the area of	this r	rectan 10 cm	gle.	10	ouns
		Answer: cm ²				(<i>x</i> +	5) cm
	(b)	A square piece of side 5 cm is cut off from the cardboard piece cut off?					the cm ²
	(c)	Write down and simplify an expression for the remainin	g area	ι.			
	(d)	Ans If $x = 3$ cm, what is the area of the remaining cardboard	swer: _				_ cm ²
		Ans	swer:				$_ cm^2$
						[8 m	arks]
11.	(a)	(i) Write down the square numbers found in the table:	12	17	15	8	4
			16	13	22	19	27
		(ii) Write down the prime numbers found in the table:	36	11	23	21	6
	(b)	(i) Factorise $5x - 10y$ (ii) $3(2x + 3y)$	e) = _	v	x +		<i>Y</i>
		Answer:					
						[6 m	arks]

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(b) (i) What is sum of the interior angles of a pentagon? (The sum of the interior angles of an *n*-sided polygon is $90(2n - 4)^{\circ}$.)





End of Paper