

Instructions to Candidates

- Answer ALL questions.
- This paper carries a total of 20 marks. Each question carries 1 mark.
- Calculators and protractors are not allowed.

		STUE
No.	Question	Space for
1	<u>Underline</u> the one that is equal to: 36	Space for
	A. $15 \times 2 + 3$ B. $(12 + 6) \times 2$ C. $10 + 2 \times 3$	
2	Monica is packing 23 cakes into boxes. Each box holds 4 cakes. What is the smallest number of boxes that Monica needs to pack all the cakes?	
	boxes	
3	Solve : $3x - 7 = 17$	
	<i>x</i> =	
4	Paul has 46 marbles and Alan has 54 marbles. How many marbles should Alan give to Paul so that they both have the same number of marbles?	
	marbles	
5	Twelve children share 3 pizzas between them. <u>Underline</u> the fraction of pizza that each child will get.	
	A. $\frac{1}{2}$ B. $\frac{1}{8}$ C. $\frac{1}{4}$ D. $\frac{3}{8}$	
6	Estimate the area of the shape in unit squares.	
7	Three copybooks cost the same as 1 file. Two files and one copybook cost the same as copybooks.	

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No.	Question Space			
	Underline the shape that has no parallel lines.			
8	A. Trapezium B. Rhombus C. Kite			
9	QuestionSpace forUnderlinethe shape that has no parallel lines.A. TrapeziumB. RhombusC. KiteJoanne started a fun run at 10:15 am. She finished at 11:05 am on the same day. How many minutes did it take Joanne to finish the fun run?			
	minutes			
10	x x x			
	The bearing of H from W is 260°. W 260° H Diagram not to scale Underline the correct bearing of W from H: A. 080° B. 100° C. 130°			
	Mark has 5 dogs and a 15 kg bag of dog food.			
	Each dog eats 100 g of dog food each day.			
	The bag of dog food will last for days.			

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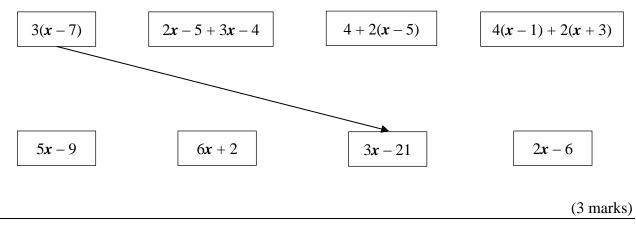
QuestionSpace forUse $A = \pi r^2$ to estimate the area of a circle with a radius of 4 mm^2The following are the ages (in years) of five athletes. 15, 22, 18, 26, 20main the median age?	m ²
15, 22, 18, 20, 20	
15, 22, 18, 20, 20	
	15, 22, 18, 26, 20
<u>Underline</u> the size of the exterior angle of a regular polygon with 12 sides.	
A. 15° B. 30° C. 45° D. 60°	15° B. 30° C. 45° D. 60°
A rectangle measures 4.5 cm by 8 cm. A square has the same area as the rectangle. Work out the length of a side of the square.	are has the same area as the rectangle.
cm	cm
Work out giving your answer in its lowest terms: $\frac{2}{9} + \frac{1}{9}$	2 1
50% 20% 50% TV 50% 30% Internet 30% Out How many students prefer watching TV?	20% Watch TVspend their free time.0% e the ernet30% GoingThe percentages in the pie chart show how the students voted.0% ernetHow many students prefer
Work out the value of $3(h + m)$ when $h = 9$ and $m = 11$.	but the value of $3(h + m)$ when $h = 9$ and $m = 11$.
Owen bought 4 kg of bananas at €1.75 per kg. How much did he have to pay?	

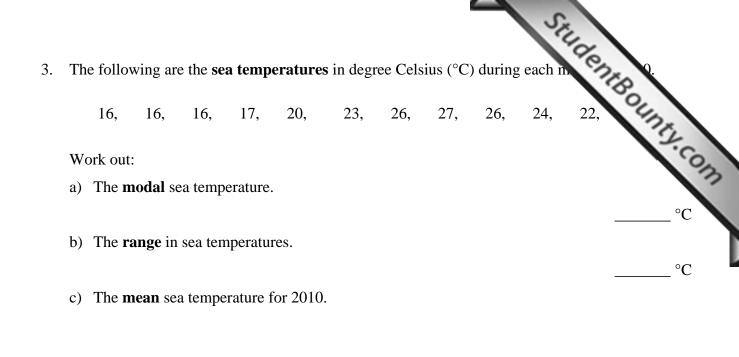
DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCAT

Department for Curriculum Management and eLearning **Educational Assessment Unit**

Annual Examinations for Secondary Schools 2013

StudentBounty.com **MATHEMATICS SCHEME C** FORM 5 Main Paper Non Question 2 4 5 7 8 9 10 11 12 1 3 6 Main Total Calculator Mark Name: Class: **Instructions to Candidates** Answer ALL questions. This paper carries a total of 80 marks. Calculators are allowed. Show all necessary working. 1. Using your calculator, work out: b) $35 + \sqrt{225} =$ a) $30 - 7 \times 2.6 =$ d) $\frac{1}{2}(3.2+7) =$ c) $100 - 4^3 =$ (4 marks) 2. Match the given expressions to their answers. The first one is done for you.





_____ °C (4 marks)

€

%

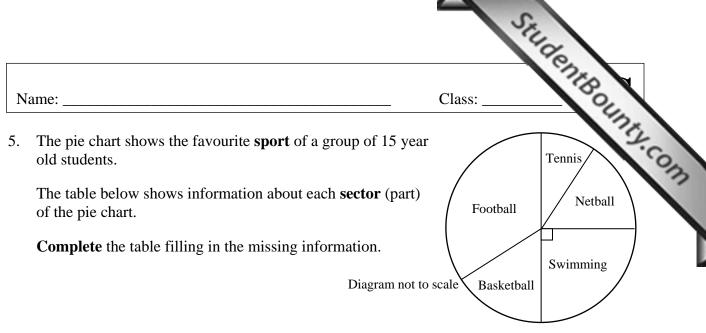
- 4. a) John **bought** a calculator for $\in 8$. He then **sold** it to his friend Anna for $\in 10$. Work out:
 - i) The **profit** John made in selling the calculator.
 - ii) His profit as a **percentage** of the original cost.
 - b) Paul buys a computer costing €640. Paul pays 25% deposit.
 - i) Write 25% as a **fraction**.



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- ii) Work out the **deposit** that Paul pays.
- iii) Work out the **remaining** amount of money that Paul has to pay.

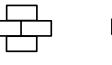


Sport	Angle in Pie Chart	NUMBER OF Students
Tennis	30°	
NETBALL	60°	30
SWIMMING		
BASKETBALL	60°	
Football		60
	360°	180

(6 marks)

6. Alex is making this brick pattern.





Pattern 1

Pattern 2

Pattern 3

Pattern 4

- a) **Draw** pattern 4 in the space provided above.
- b) **Fill in** the table below.

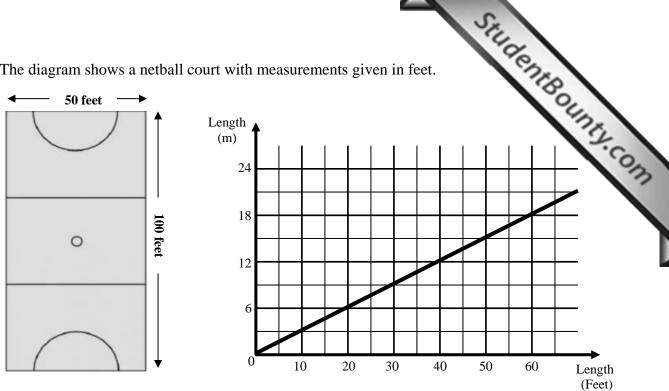
Pattern	1	2	3	4	5	
Bricks Used	1	4				36

- c) **Pattern 8** is made up of _____ bricks.
- d) Alex needs 100 **bricks** to make pattern _____.

(8 marks)

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7. The diagram shows a netball court with measurements given in feet.



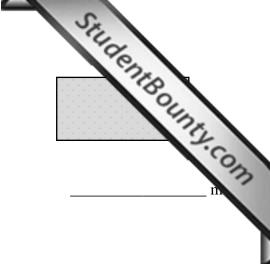
- a) Use the graph to **complete** the following:
 - $_$ feet = 6 m i)
 - 50 feet ii) =_____ m
 - iii) 100 feet = _____ m
- b) Work out the **area** of the netball court in m^2 .

Area = $_$ m²

- c) The rectangle in the middle of the court is 30 feet long.
 - 30 feet = _____ m i)
 - Work out the area of **this rectangle** correct to the nearest m². ii)

Area = $_$ m²

(8 marks)



- 8. A rectangular field is (2x 3) m long and x m wide.
 - a) Write down an **expression** for the perimeter of the field. **Simplify** your answer.
 - b) The perimeter of the field is 36 m.Form an equation and solve it to find the value of *x*.

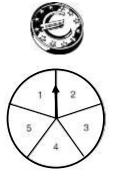
c) Use your answer to question (b) to work out the **length** of the field.

	m
(6	marks)

x = _____ m

- 9. Alison had a coin and a spinner. She tossed the coin and turned the spinner together.
 - a) **Complete** the possibility space below.

				Spinner		
		1	2	3	4	5
Coin	Heads	H1			H4	
ŭ	Tails		T2			T5



Work out the **probability** that:

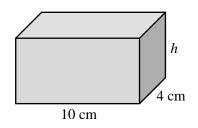
- b) Alison gets **heads** on the coin and an **odd number** on the spinner.
- c) Alison gets **tails** on the coin and a number **less than 3**.

				I'll de	
Th			vn inside the circle with ngruent equilateral	n centre O.	AtBounts.co
W	ork out:			\wedge	12
a)	Angle AOB.			>	N'
b)	Angle ABO.		°	F	
c)	The size of one int (E.g.: Angle ABC)		ne hexagon.	E	D
d)	The sum of the int	t erior angles of t	he hexagon.		0
e)	<u>Underline</u> the corre	ect answer. ABC	D is a:		0
	Rhombus	Kite	Trapezium	Rectangle	
					(8 marks)

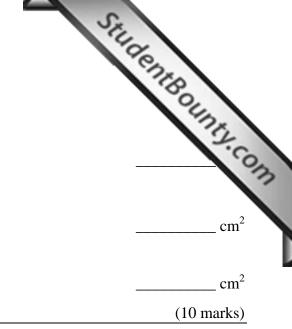
11. a) Cuboid A is 6 cm long, 12 cm wide and 9 cm high.Work out the volume of cuboid A.

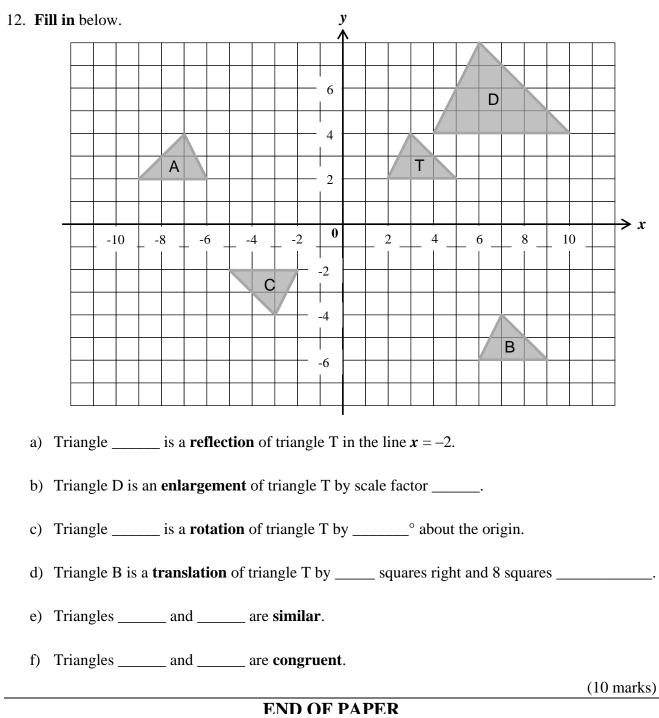
Volume = $_$ cm³

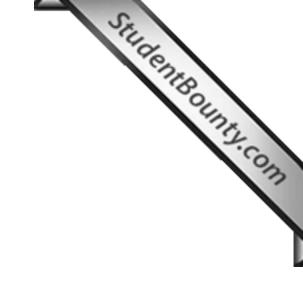
b) **Cuboid B** has a volume of 512 cm^3 . Work out its height *h*.



- 11. c) Amy designs a **cube** with sides 4.5 cm. Work out:
 - i) The **volume** of the cube.
 - ii) The area of one face of the cube.
 - iii) The total surface area of the cube.







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