SECONDARY SCHOOL ANNUAL EXAMINATIONS 2009

	SECONDARY SCHOOL ANNUAL EXAMINATION Directorate for Quality and Standards in Education Educational Assessment Unit	ONS 2009 PROUNT
FORM 3	MATHEMATICS SCHEME D	TIME: 30 minutes
	Non-Calculator Paper	$\overline{}$

Name: **Class:** _____

Question	1	2	3	4	5	6	7	8	9	10	Total
Mark											

Instructions to Candidates

- Answer all questions. There are 10 questions to answer.
- This paper carries a total of 25 marks.
- Calculators and protractors are not allowed.

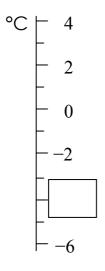
Ans_____

(b) Work out:

Ans_____

(3 marks)

2. (a) Write the missing temperature on this thermometer.



(b) Complete:

(2 marks)

Class: ____

3. (a) A packet of crisps weighs 16 grams. Work out the weight of 100 packets of crisps.

SHILDERIBOURIS, COM Ans____grams

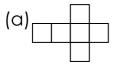
(b) Work out:

$$\frac{1}{4}$$
 of €128

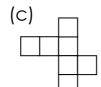
Ans €_____

(3 marks)

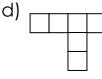
4. Which of the following is the net of a cube?











Ans_____

(1 mark)

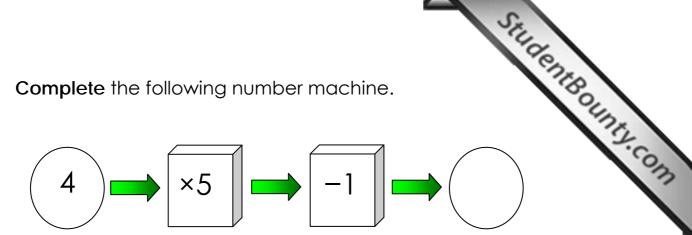
5. (a) Simplify: 3a + b + 4a + 4b

Ans

(b) Solve the equation: 5 + x = 30

(2 marks)

Complete the following number machine. 6.



(2 marks)

7. (a) Work out:

$$4 \times 2 + (8 - 6)$$

Ans____

(b) Which of the following is the best estimate of 98 ·7 - 21·3?

70

80

110

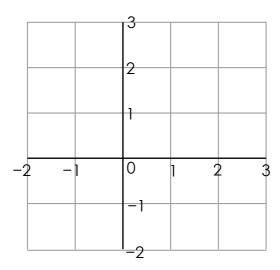
120

Ans _____

(3 marks)

8. (a) Plot and join the points A(1, 3), B(-1, -2).

(b) Mark a third point C to form an isosceles triangle ABC.

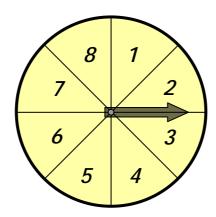


(c) Write down the coordinates of point C.

Ans(,)

(3 marks)

- 9. The probability that the spinner will show an **odd** number is:
 - (a) impossible (b) unlikely (c) even chance (d) likely (e) certain



Ans

(1 mark)

10. Fill in the boxes to help you work out:



Ans_____

(5 marks)

SECONDARY SCHOOL ANNUAL EXAMINATIONS 2009

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

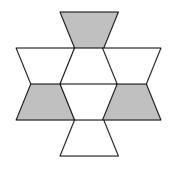
DO NOT WRITE ABOVE THIS LINE

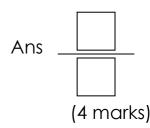
Name:	Class:
Answer all questions.This paper carries 75 marks.	

- Calculators and mathematical instruments are allowed but all necessary working must be shown.
- 1. (a) Which of these numbers are prime? Ans
 - (b) Write the number four hundred and six in figures.

Ans

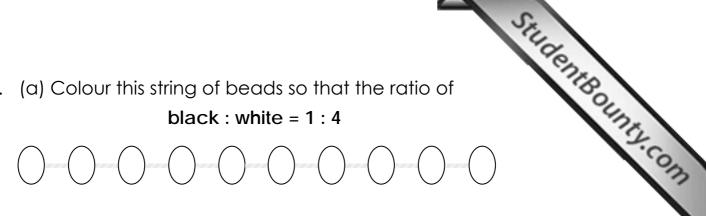
(c) What fraction of the shape is shaded?





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black: white = 1:4



- (b) Richard walks 8 km in 2 hours.
 - (i) How far will Richard walk in 1 hour?

(ii) How far will Richard walk in 4 hours?

Ans km

Ans km

(5 marks)

3. A rectangle is divided into 10 equal squares.



(a) Leonard shades 3 squares. What percentage is this?

Ans %

- (b) Stephanie has a similar rectangle. She shades 20%.
 - (i) How many squares is this?

Ans_____ squares

(ii) How many squares are not shaded?

Ans____squares

(iii) What fraction of the rectangle is not shaded?

Ans

(5 marks)

Name:

Class:

StudentBounts.com 4. Fill in the blanks with these numbers. You may use a number more than once.

- 2
- 5 7
- 8
- 30

(a) ____, and ___ are **even** numbers.

(b) _____ is the **cube** of 2.

(c) _____ is a **factor** of 21.

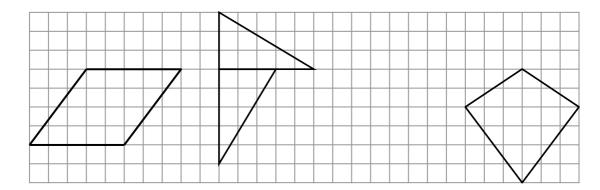
(d) ____ × ___ = 45.

(e) _____ is a multiple of 6.

(f) _____ = 10.

(11 marks)

5.



(a) Draw the lines of symmetry of the rhombus.

(b) Translate the kite 7 left and 3 up.

(c) Underline the correct answer.

The transformation from one right-angled triangle to the other is a:

Reflection

Translation

Rotation

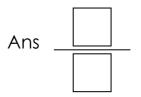
Ans _____

(5 marks)



- ______
- (b) Work out:

$$\frac{5}{8} + \frac{1}{8} - \frac{3}{8}$$



(c) (i) Use your calculator to work out:

$$17.9 \times 2.4$$

Ans

(ii) Now write your answer correct to the nearest whole number.

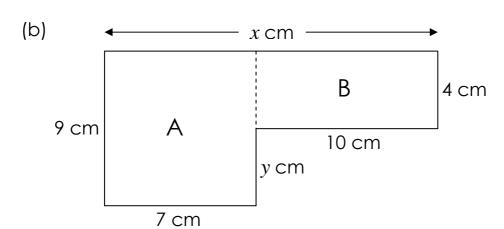
Ans____

(6 marks)

7. (a) Complete:

(i)
$$3.4 \text{ litres} = 3.4 \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \text{ml}$$

(ii)
$$425 \text{ cm} = 425 \div ____ = ___ \text{m}$$



(i) What is the length marked x cm?

	Student	Bour	
Ans	<i>x</i> =	_cm	COM

(ii) What is the length marked y cm?

Ans
$$y =$$
____cm

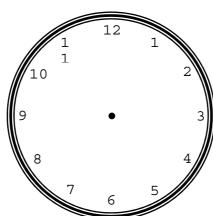
(iii) Work out the perimeter of the whole shape.

Ans____cm

(iv) Complete:

(12 marks)

8. (a) Draw the hands on the clock to show 5.15 pm.



(b) Write the time 5.15 pm as seen on a 24-hour clock.

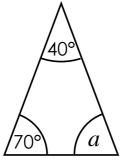
Ans_____

Student Bounty.com

(c) A football match starts at 5.15pm. It takes 1 hour 45 minutes to finish. At what **time** does it finish?

Ans____(5 marks)

9. (a)



Work out the size of the angle marked a.

Ans
$$a =$$

Write down the size of the angle marked b.

Ans
$$b =$$

(c) Underline the two correct words.

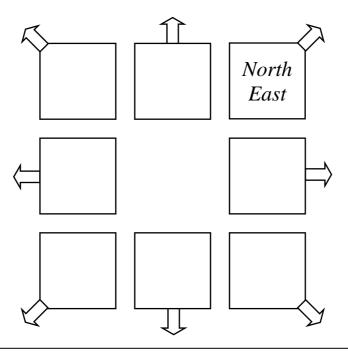
The shapes above are:

rectangle, rhombus, isosceles triangle, kite, parallelogram.

(4 marks)

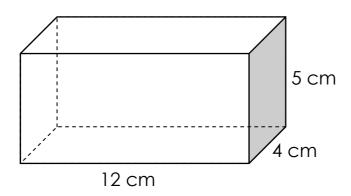
10. Fill in the squares with the following words:

Student Bounty Com North, South, East, West, North West, South West, South East



(7 marks)

11. Work out the volume of the cuboid.



 cm^3 Ans

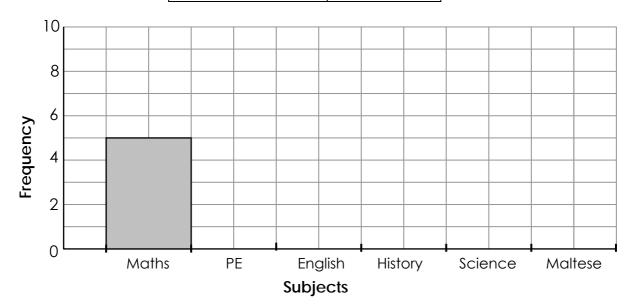
(3 marks)

12. The following are the favourite subjects of a group of 30 stu

The following	g are the fav	r ourite subjec	cts of a group	of 30 studented	
PE	History	Science	Maths	Maths	
Maths	English	Science	PE	Maths	
PE	PE	English	Science	History	3
Maths	PE	Science	History	Maltese	
History	Maltese	Science	PE	PE	1
PE	PE	English	Science	PE	- 1

(a) Complete the following frequency table and bar chart.

Subject	Tally	Frequency
Maths		
PE		10
English		
History		
Science		
Maltese		
	Total	30



(b) (i) Which subject is the mode?

Ans

(ii) Which is the least favourite subject?

Ans

(8 marks)