Calculators and protractors are not allowed.

DIRECTORATI Department for Cu Educational Assess Annual Examinat	E FOR QUALITY AND STANDARDS IN Exerciculum Management and eLearning sment Unit ions for Secondary Schools 2013 MATHEMATICS SCHEME D	DUCATI CENTROLLING
FORM 5	MATHEMATICS SCHEME D Non Calculator Paper	TIME: 20 minut
Name:		Class:
	Mark	
	Instructions to Candidates	
Answer ALLThis paper ca	questions. rries a total of 20 marks.	

1.	a) Which object is made up of most cubes?	Tente ou
	A B C	Jent Bounty.Co
	b) How many cubes make up object A ?	Object
		cubes
		(2 marks)
2.	Rita has the following coins in her pocket.	
	Company (Lange Company) (Sp. C	
	a) How much money does Rita have?	
		€
	b) She wants to buy a shirt costing €5. How much more money does she need?	
	<u>-</u>	cent
		(3 marks)

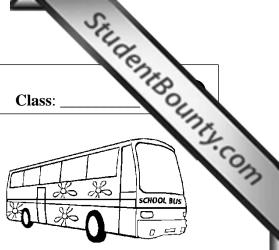
		-
N	Name:	Class:
		
2	A bus took some students to camp	

3. A bus took some students to camp.

It left the school at 10:15 am.

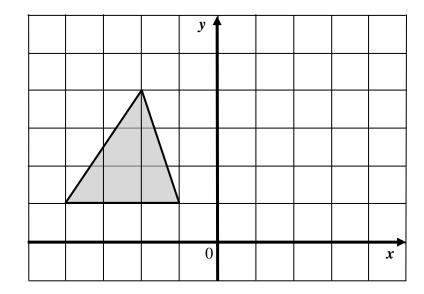
The trip took **one and a half** hours.

At what **time** did the bus get to the camp?



 :	am
	(1 mark)

4. **Reflect** the triangle in the **y-axis**.



(1 marks)

5. The following are **ages** (in years) of a group of athletes.

15, 18, 20, 22, 26

What is the **median** age?

Median = _____years (1 mark)

6.	Α	baa	of 4	apples	costs	€2.00
٠.	, ,	249	01 1	appios	CC313	CZ.00

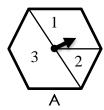
a) Work out the cost of **one** apple.

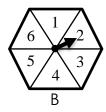


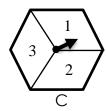
b) How many apples can be bought with €7.50?

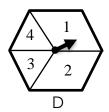
_____ apples (3 marks)

7. Sandra spins these arrows.







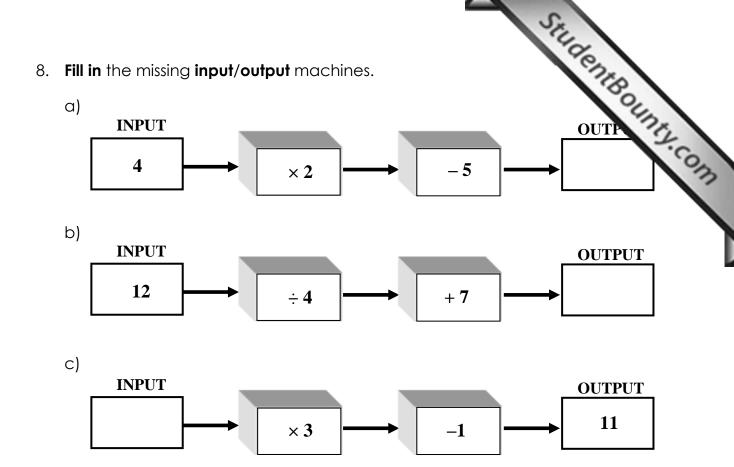


a) Which arrow is **most likely** to land on a 3?

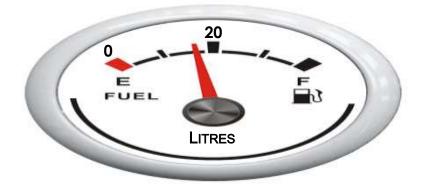
Arrow____

b) With arrow C the probability of getting a 2 is:

(2 marks)



9. This fuel gauge shows the amount of petrol in the tank.



a) About how many litres of petrol are there in the tank?

litres

(3 marks)

b) How many litres are there in the tank when **full**?

____litres

(2 marks)

NOVEMBER 2013

						Still	
		Nov	/EMBER 2	2013			JentBounty.com
Sund ay	Monday	Tuesday	Wednesday	Thursday	Friday 1	Seturday 2	Y.com
3	4	5	6	7	8	9	
10	11	12	13	14	15	16	
17	18	19	20	21	22	23	
24	25	26	27	28	29	30	

Complete the following using the calendar above.

a) John goes for football training every Tuesday and Friday .	
During this month he will have training sessions.	
b) John celebrates his birthday on 26 October 2013. This day will be a	
	12 marks

END OF PAPER

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

Annual Examinations for Secondary Schools 2013

FORM 5

MATHEMATICS SCHEME D **Main Paper**

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	Main	Non Calculator	Total
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. a) Write three thousand five hundred and eighty six as a number.

 - b) Use your calculator to work out the value of:

ii)
$$5^2 + 2^3 =$$
_____.



(4 marks)

Student Bounty Com 2. a) Arrange these decimals in ascending order (smallest to large

1.305

13.5

13.05

1.35

b) **Round** these numbers as indicated in the brackets.

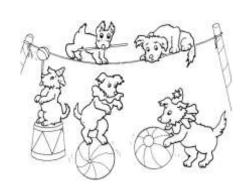
(6 marks)

3. Mark has 5 dogs and a 15 kg bag of dog food. Each dog eats 100 g of dog food each day.

Fill in.

a) Mark needs _____ g of dog food **each** day to feed his dogs.

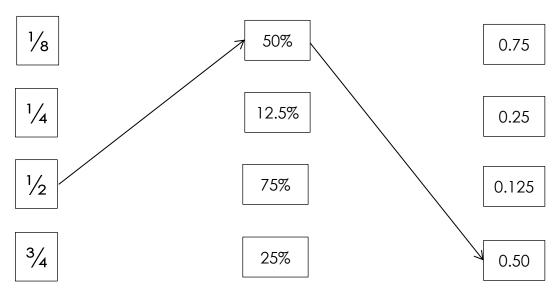




c) The 15 kg bag of dog food will last for _____ days.

(3 marks)

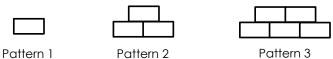
4. **Match** fractions with decimals and percentages using **arrows** as shown.



13 marks)

Name:	Class:

5. Alex is making this brick pattern.



ern 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	3				11

c) Pattern 8 is made up of _____ bricks.

d) Alex needs 19 **bricks** to make pattern _____.

(6 marks)

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6. **Movie Cinema** has the following **film** program.

FILM		STARTS AT		LENGTH
Pirates	10:30 am	1:30 pm	3:30 pm	1 hour 35 minutes
A School Story	10:00 am	1:05 pm	4:00 pm	2 hours 50 minutes
Lost on an Island	10:40 am	1:15 pm	4:30 pm	1 hour 40 minutes
The Old House	11:45 am	2:15 pm	4:45 pm	2 hours

a)	Mark arrives	at the	cinema c	at 10:50	am.	Which mo	orning film	can he wa	tch?

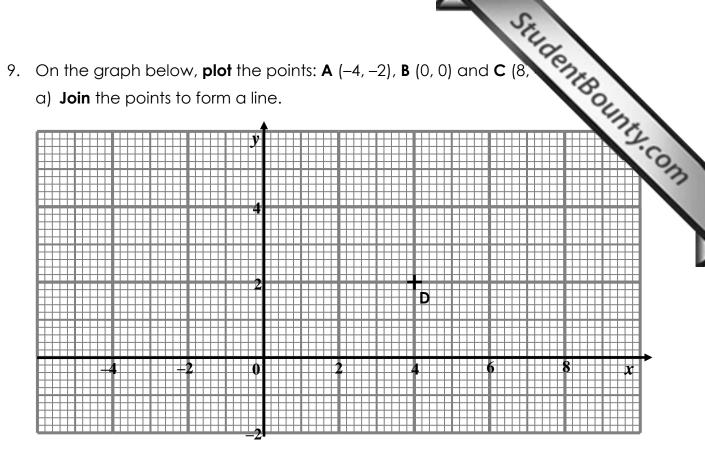
h'	Δt	what	time	does	the	last	movie	show	end?
$\boldsymbol{\nu}$	/ /\I	wildi	IIIIIe	0062	1116	lusi	HIONE	21 10 44	ena:

•	n
•	PIII

c) Sara **arrives** at the cinema at **1:00 pm**. Her mother will pick her up at **3:00 pm**. Which **movie** can Sara watch from start to finish?

				•

7.	A r	ect	angular field is $(2x - 3)$ m long and x	m wide.	
	a)		e field.	eter of x	BOUNTS!C
		P =	= 2x - 3 + x +		
	b)	Sin	nplify the expression in question (a).	2x-3	
	•		e perimeter of the field is 36 m. nplete the equation and solve it to fi	nd the value of x .	m
			= 36		
				x =	m
	d)	Us	e your answer in question (c) to work	out the length of the field.	
				_	m (7 marks)
8.			has a euro coin and a dice . st tossed the coin.		
	a)	i)	What is the probability of getting he	eads?	
		ii)	Alison tosses the coin 60 times. Estimate the number of heads Aliso	n is likely to get.	
	Alis	son	then throws the dice shown.		
	b)	i)	Which of the following is more likely <u>Underline</u> the correct answer. Getti		
			a prime number	a square number	
		ii)	Give a reason for your answer.		



b) Write down the coordinates of point D.

D = (____, ___)

c) Work out the gradient of the line.

Gradient = ____

d) <u>Underline</u> the correct **equation** of the line.

$$y = 2x + 4$$

$$y = \frac{1}{2}x - 2$$

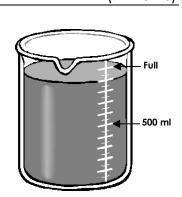
$$y=\frac{1}{2}x$$

(7 marks)

10. a) Petra filled a **beaker** with an amount of water.

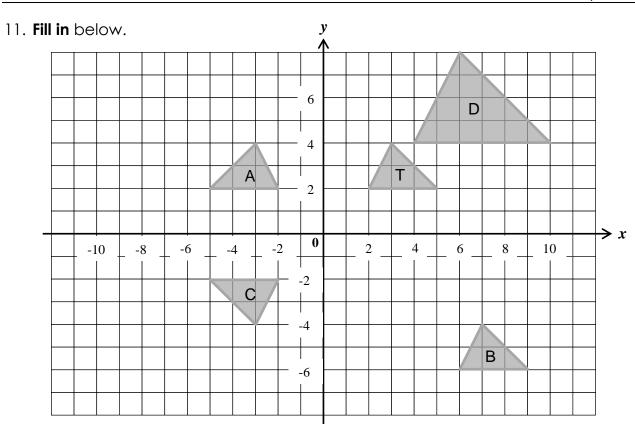
Fill in.

- The beaker has _____ **ml** of water.
- The beaker has _____ of water when full. ii)
- iii) With another **m** of water the beaker will be **full**.



o) Complete the table bel	ow showing working and	answer. AREA AREA
Shape	Perimeter	AREA COLUMN
6.2 cm	cm	cm ²
6 cm 10 cm		
8 cm	cm	cm ²

(9 marks)

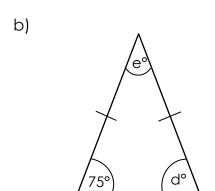


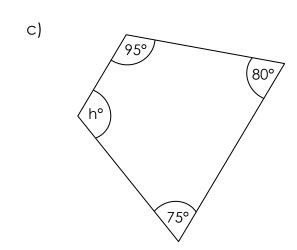
- a) Triangle $\underline{\hspace{1cm}}$ is a **reflection** of triangle T in the y-axis.
- b) Triangle D is an **enlargement** of triangle T by scale factor _____.
- c) Triangle _____ is a **rotation** of triangle T by _____° about the origin.
- d) Triangle B is a **translation** of triangle T by _____ squares right and 8 squares

12 markel

(115° m°)	

m = _____°

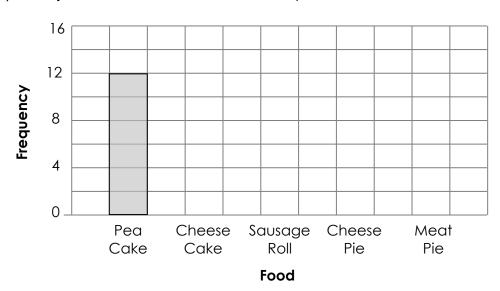




(6 marks)

13. The table shows the **food items** sold from the tuck shop.

				18	inde
ne table shov	ws the food	items sold fro	om the tuck sl	nop.	CAR
Food	Pea Cake	Cheese Cake	Sausage Roll	Cheese Pie	Me Pie
Frequency	12	14	10	7	16



b) Fill in.

- i) The **total number** of food items sold at the tuck shop is _____.
- ii) The most **popular** food is ______.
- iii) The **total** number of **pies** sold is ______.
- iv) The tuck shop sold _____ more cakes than pies.
- v) The shop sold **twice** as many _____ as ____ as ____

(10 Marks)

END OF PAPER