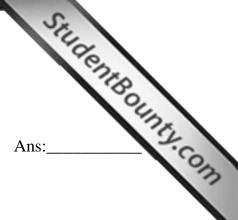
DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION

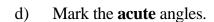
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b) Fill in:
$$20 - 4 = 4 \times (2 + \square)$$

- c) By looking at the following calculations, state which of them **must** be **wrong**.
 - (i) $53 \times 44 = 2332$
- (ii) $36 \times 23 = 882$
- (iii) $85 \times 25 = 2125$

Ans:_____





(4 marks)

2. a) Express as a **fraction** and as a **decimal**.



Number of shaded triangles
Whole number of small triangles



= ____

- b) **Circle** the only set of numbers which has three **equal** values.
 - (i) $\frac{2}{5}$ 40% 0.4
- (ii) $\frac{1}{4}$ 25% 0.14
- (iii) $\frac{3}{4}$ 34% 0.74
- (iv) $\frac{7}{10}$ 7% 0.7

(3 marks)

3. a) Maria has €15 to spend on peanuts. How many bags of peanuts can she buy? peanuts €1.35

200

Ans:_____ bags

b)	Rhys	has	€50



He wants to buy a bird feeder and 10 bags of bird seed.

How much **more** money does he need?



Ans: € more

(3 marks)

- 4. Complete the patterns.
 - a) 8, 5, 2, -1, ____.
 - b) €____, €2.05, €2.45, €2.85, €3.25.

(2 marks)

- 5. Fill in the number cards to make correct calculations.

 - b) $\boxed{4}$ $\boxed{-4}$ = $\boxed{}$

(3 marks)

6. a)

11 12 1

10 2

9 3

8 4

What is the **obtuse** angle between the hands of the clock at exactly 4 o'clock?

Ans:_____o

b) Complete the logo commands to draw a rectangle with a **perimeter** of 200 turtle steps.

PD REPEAT 2 [FD 40 RT 90 FD _____ RT 90]



(3 marks)

Ans:________(5 marks)

what distance does Mario still have to run to finish the race?

DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION

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Name:	Class:
raine.	Class.

CALCULATORS ARE ALLOWED BUT ALL NECESSARY WORKING MUST BE SHOWN. ANSWER ALL QUESTIONS.

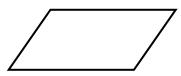
- 1. Write thirty five thousand and seventy six in figures. a)

 - Fill in and then write as a power of ten: b)

$$5^3 \times 2^3 = \boxed{ } = 10^{\boxed{ }}$$

(3 marks)

2.

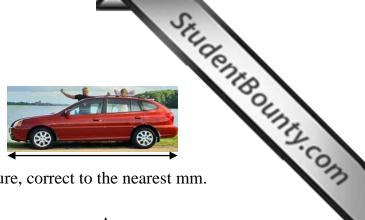


The shape is a quadrilateral. Tick (\checkmark) the **correct** statements.

- It is a parallelogram. a)
- It has line symmetry. b)
- It is an irregular polygon. c)
- Its opposite angles are equal. d)
- Its diagonals are equal. e)

(2 marks)

3. This is a picture of Reno's new car.



a) Measure the length of the car in the picture, correct to the nearest mm.

Ans: _____ mm

The real car length is 4.50 m.

b) Work out the **scale** in its **simplest** form.

Length of car in picture: Length of real car

Ans: ____ : ____

(3 marks)

4. Fill in the spaces to complete the following number machines. Then write the **rule**.

a)	Input (x)	Output (y)
	1	3
	2	6
	3	9
	4	
	5	15

b)	Input	Output
ĺ	(p)	(\boldsymbol{q})
	1	5
	2	8
	3	11
	4	
	5	17

Rule: *y* = _____

Rule: *q* = _____

(4 marks)

Student Bounts, com 5. The following table shows the ages of 12 children at the playing field at noon last Sunday.

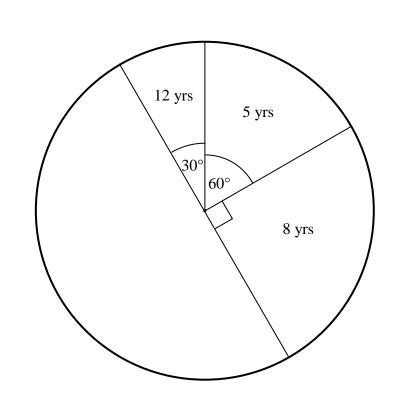
5	10	8	11	8	5
12	8	9	10	11	9

Find the **median** age of the data. a)

Work out the mean age correct to 1 decimal place. b)

c) Complete the **frequency table** for the above data and then complete and label the pie chart.

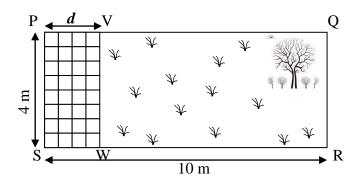
Age	Frequency
5	2
6	0
7	0
8	3
9	
10	
11	
12	1
Total	12



What is the **mode**? d)

(9 marks)

6. a) Raymond's rectangular garden has **paving** on one side. The rest is gra



`1	he rest is g	I DENIHOU	
	KEY		3.00
		paving	13
	χ χ	grass	
	* *	grass	

(i) What is the **perimeter** of the whole garden PQRS?

Ans: _____ m

(ii) What is the value of *d* if the tiles are squares of side 50 cm? Give answer in metres.

Ans: _____ m

(iii) Calculate the area of VQRW.

Ans: _____ m²

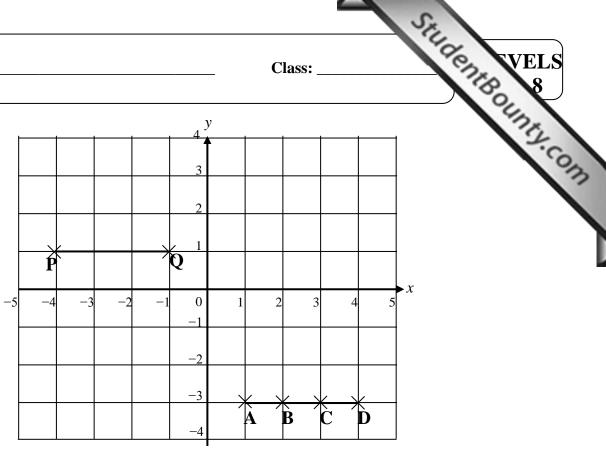
b) Raymond digs a pond 2 m long, 1.5 m wide and 1 m deep. What is the volume of the water if the pond is filled to the top? (The pond is in the form of a cuboid.)

Ans: _____ m³

(8 marks)

Class:

7.



- (i) Write the coordinates of $P \ (\ , \)$ and $Q \ ($ a)
 - (ii) Plot point R (-2, 3) and join PQR to form a triangle.
 - (iii) **Reflect** triangle PQR in the x axis. Label it P'Q'R'.
 - (iv) **Translate** triangle PQR **5 right** and **2 down**. Label it P"Q"R".
- b) **Underline** the correct equation below:

Points A, B, C and D on the grid shown lie on the line with equation:

$$y = -3$$

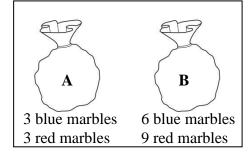
$$y = 3x$$

$$x = -3$$

$$y = x - 3$$

(8 marks)

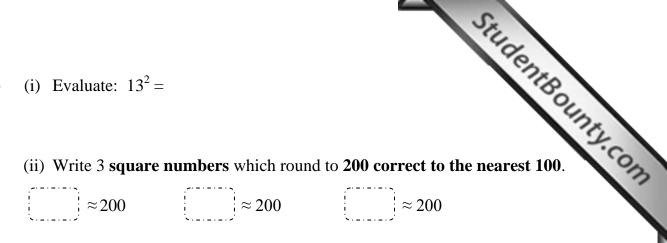
8.



- a) Darren chooses a marble from bag A and another marble from bag B without looking.
 - The probability of picking a blue marble (i) from bag A is
 - The probability of picking a blue marble (ii) from bag B is
- (iii) Is Darren **more likely** to pick a blue marble from bag A or bag B?

Ans: Bag____

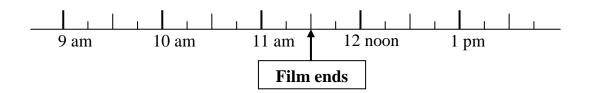
(i) Evaluate: $13^2 =$ b)



Ans:____, ____

(6 marks)

Leo and his sister watched an action movie. 9.



The movie was 2 hours and 15 minutes long. a) Mark on the time line, the time when the film started.

b) **After** the film, they played **football** in the backyard. When they came in from playing football, it was 1.05 pm. Write this time using 24-hour clock.

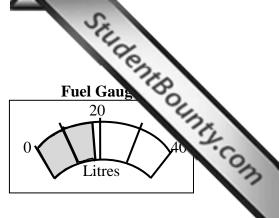
How long did they play football? c)

Ans: _____h___min

(3 marks)

10.	a)	According to this fuel gauge, about how many
		litres of fuel are in the tank?

Ans:____litres



b)

Recipe

10 strawberries ½ litre orange juice 250 ml yogurt 1 banana



(i) Express in its **simplest** form.

orange juice: yogurt

Ans: ____: ___

Silvia uses the recipe to make smoothies. She uses 1 litre of yogurt.

(ii) How many **strawberries** does she need?

Ans: strawberries

Aaron uses the same recipe. He wants to make 5 smoothies.

He has 1 litre of orange juice.

(iii) How many **more** millilitres of orange juice does he need?

Ans:_____ more millilitres of orange juice

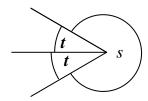
(6 marks)

11. a) If x = 4 and y = 10 find the value of:

$$\frac{2(x+1)}{y} =$$

Ans: _____

Student Bounty.com The value of each t in the diagram is 21° . Work out the value of s. b)



Ans: s =

(4 marks)

- Luke had 14 points and **lost** *x* points during a game.
 - Write this as an expression in x. a)



Luke

Jennifer started with 8 points and won x points.

Write this as an expression in x. b)

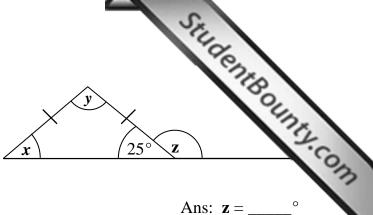
They noticed that then they each had the **same** number of points.

Form an equation in x and solve it. c)

(5 marks)

13. a) Find

the value of the exterior angle \mathbf{z} (i)

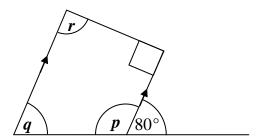


(ii) the value of (x + y)

Ans:
$$(x + y) = _{---}^{\circ}$$

(iii) What can you deduce from the above answers?

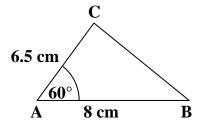
Find the value of p, q and r, giving reasons. b)



Space for working if required.

(9 marks)

Student Bounty.com Use ruler and compasses only to make an accurately, labelled drawing 14. a) triangle shown, starting from the given line below.





Measure (i) angle B correct to the nearest degree b)

(ii) side BC correct to the nearest mm.

(5 marks)