Q1.		
	The table shows the ratio of teachers to children needed for two act	ivities

	teachers : children
Climbing	1 : 4
Walking	1:9

(a)	There are 7 teachers to take children climbing.	
	What is the greatest number of children that can go climbing?	
	Answer	(1)
		.,
(b)	49 children want to go walking.	
	What is the smallest number of teachers needed?	
	Answer	(1)
		(Total 2 marks)

Q2.

Laura buys a saddle in the UK for £850 Delivery is free.



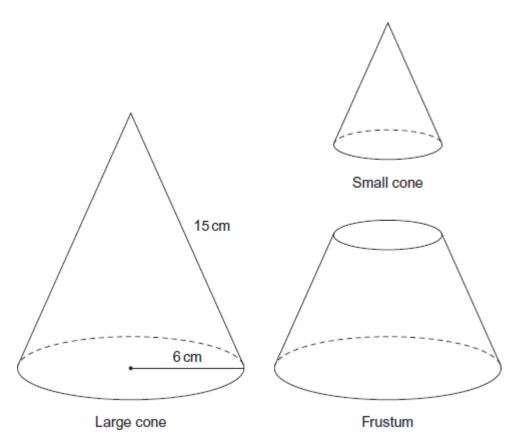
Steve buys the same saddle from Holland for 990 Euros. He pays 15 Euros for delivery.

£1 = 1.18 Euros

ocluding the delivery charge, whose saddle is cheaper ? Tou must show your working.	
Answer(Total 3 ו	marks)

Q3.A frustum is made by cutting a small cone from the top of a large cone as shown.

(Total 4 marks)



The slant height of the large cone is 15 cm. The radius of the base of the large cone is 6 cm.

Work out the curved surface area of the frustum.

The height of the small cone is half the height of the large cone.

Anguer	

Q4.

Dave goes Go-Kart racing with his friends.

(Total 3 marks)

Q5.

These tables show information about his races on both dry and wet tracks.

Dry track

Wet track

Number of races	Number of wins
64	16

Number of races	Number of wins
40	12

On which type of to You must show you	rack is he more successful? our working.	
		(Total 3 marks)
	Pancakes for 6 people	
	50 g flour 25 g butter	
	1 egg 150 ml milk	
How much milk is	needed to make pancakes for 15 people?	

Answer ml

Q6.A recip	be needs 300 grams of flour to make 4 cakes.	
(a)	How much flour is needed to make 6 cakes?	
	Answer grams	(2)
(b)	1 kg = 1000 grams	
	How many cakes can be made from a 1.5 kg bag of flour?	
	Anguar	
	Answer(T	(3) otal 5 marks)

	Plum jam Recipe for 8 jars	
Caster Sugar Plums Water	1.8 kg 1.2 kg 160 ml	M
Lemon Juice	100 ml	Ŋ

Jayne wants to make 4 jars of jam.

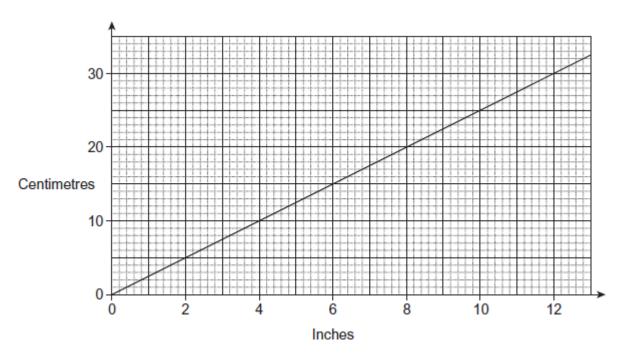
How many **grams** of plums does she need?

Answer grams	(1)
Jayne has 860 grams of caster sugar.	
How much more caster sugar will she need to make 4 jars of jam? State the units of your answer.	

(2) (Total 3 marks)

Q8.Here is a conversion graph.

(b)



Shaz has 150 cm of material. She needs 75 inches of material to make a skirt.

Does she have enough material? You **must** show your working.

Q9.Samples are taken from a production line.

The number of faulty items is shown.

	Sample A	Sample B	Sample C
Sample size	300	250	400
Number of faulty items	42	33	48

	must show your working.	
	muet onen year menang.	
	Answer	
		(Total 3 marks)
Q10. (a)	A pack of 8 batteries costs £5.99	
	How much does each battery cost?	
	Answer pence	(2)
		(-)
(b)	A pack of 6 batteries of the same type costs £3.99	
	Is this better value?	
		(2)
		(Total 4 marks)

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n	1	1	
w			

Year 10 has 210 students. 112 are boys.

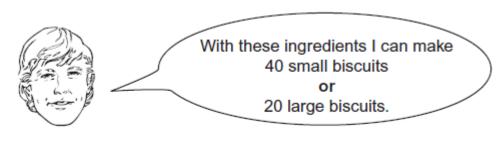
Year 11 has 240 students. 132 are boys.

Which year group has the greater proportion of boys? You must show your working.	
	(Total 4 marks)

Q12.

Ingredients for biscuits

60 g of sugar 120 g of butter 180 g of flour



Tony

Tony wants to make 20 small biscuits and 15 large biscuits.

Work out how much of each ingredient he needs. You **must** show your working.

Sugar g	
Butter g	
Flour g	(Total 4 marks)
	(10tai 4 maiks)
	(Total 4 marks)
	(Total 4 marks)
Q13.Mel wants to make 20 pancakes.	(Total 4 marks)
Q13.Mel wants to make 20 pancakes.	(Total 4 marks)
Q13.Mel wants to make 20 pancakes.	(Total 4 marks)
Q13.Mel wants to make 20 pancakes.	(Total 4 marks)
Q13.Mel wants to make 20 pancakes. She needs $\frac{1}{4}$ litre of milk to make 4 pancakes.	(Total 4 marks)
Q13.Mel wants to make 20 pancakes. She needs 1	(Total 4 marks)
Q13.Mel wants to make 20 pancakes. She needs 1	(Total 4 marks)
Q13.Mel wants to make 20 pancakes. She needs 1	(Total 4 marks)
	(Total 4 marks
Q13.Mel wants to make 20 pancakes. $\frac{1}{4}$ She needs $\frac{1}{4}$ litre of milk to make 4 pancakes. She has one litre of milk.	(Total 4 marks)
Q13.Mel wants to make 20 pancakes. $\frac{1}{4}$ She needs $\frac{1}{4}$ litre of milk to make 4 pancakes. She has one litre of milk.	(Total 4 marks)
Q13.Mel wants to make 20 pancakes. She needs 1	(Total 4 marks)
Q13.Mel wants to make 20 pancakes. She needs 1	(Total 4 marks)
Q13.Mel wants to make 20 pancakes. She needs 1	(Total 4 marks)
Q13.Mel wants to make 20 pancakes. She needs 1	(Total 4 marks)
Q13.Mel wants to make 20 pancakes. She needs 1	(Total 4 marks)

Q14.Smith and Jones both play for a local football team.

	Goals scored	Games played
Smith	6	27
Jones	8	32

Which player has the higher proportion of goals scored per game played? You must show your working.	
	•
Answer	(Total 3 marks

Q15.Here are some of the ingredients for a pie.

Minced lamb Potatoes Carrots Stock	450 g 900 g 75 g 300 ml
Stock	300 1111

Answer Potatoes	α
now much of the other ingredients should he use?	
How much of the other ingredients should he use?	
Oliver has only 300 g of minced lamb.	

Carrots g

Stock ml

(Total 3 marks)

Q16. Here is a list of ingredients for bread and butter pudding.

Serves 2 people

- 1 egg
- 3 slices of bread
- 1 pint of milk
- 75 g raisins
 - 5 g butter

Complete this list to serve four people.

Serves 4 people

.....eggs

.....slices of bread

.....pint of milk

graisins

g butter

(Total 3 marks)

Q17.The diagram shows two bottles of the same drink.

