

Topic Test 1 (20 minutes)

Ratio and proportion - Higher

1	r	1/	=	5	1
	λ	v		~	

1 (a)	Circle the equation	of v as a	a function	of x
\ · /	-	2		

[1 mark]

$$y = \frac{x}{6}$$

$$y = \frac{x}{6} \qquad \qquad y = \frac{x}{5}$$

$$y = 5x$$

$$y = 6x$$

1 (b) Show that
$$x + y : x - y = 3 : 2$$

[2 marks]

2 90 hazelnuts have a mass of 125 g Hazelnuts have 630 calories per 100 g

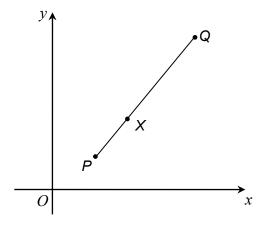
Work out the number of calories per hazelnut.

[3 marks]

Answer ____ calories

How much does Lee get?	[3
Answer £	
A spice mix contains coriander and cumin in the ratio $\frac{1}{2}$ cup : $\frac{1}{4}$ cup	
A cup of coriander is 80 grams. A cup of cumin is 100 grams.	
Work out the mass of 6 cups of the spice mix.	[4
	-

X divides the line PQ in the ratio 2:3P is (2, 1) and Q is (12.5, 7.5)



Not drawn accurately

Work out the coordinates of the point <i>X</i> .	[4 marks]

Answer (,)

6	Bob sells hats and scarves.		
	At the start of the day, he has hats: scarves = 4:3 During the day he sells 25 hats. At the end of the day, he has hats: scarves = 7:9		
	Work out the number of scarves he has.	[3 r	narks]
	Answer		