

Topic Test 1 (20 minutes)

Ratio and proportion - Foundation

1	The workers in a company are in the ratio	female : male = 1 : 4.5	
1 (a)	What fraction of the workers are female?		[2 marks]
	Answer		
1 (b)	The company has 150 female workers.		
	How many workers are there altogether?		[2 marks]
	Answer		
2	a:b = 2:7 $a^2 = 36$		
	Work out the two possible values of b .		[3 marks]
	Answer	and	
	Wile Wei	and	

3	A box contains 192 pens, They are red, green or blue A quarter of the pen The ratio green per	s are red.	1:8		
	How many blue pens are th	ere?			[4 marks]
		Answer			
1	x:y = 5:1				
4 (a)	Circle the equation of y as a	function of x .			[1 mark]
	$y = \frac{x}{6}$	$y = \frac{x}{5}$	<i>y</i> = 5 <i>x</i>	<i>y</i> = 6 <i>x</i>	
4 (b)	Show that $x + y : x - y$	= 3:2			[2 marks]

5	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		
6	Jake and Kim share some money in the ratio 1:3			
	Kim gets £90 more than Jake.			
	How much does Kim get?	[3 marks]		
	Answer £			