Ratio and Proportion Revision Mat		<ul> <li>Direct and Inverse Proportion</li> <li>1) y is directly proportional to R2. When R = 4, y = 24. Work out the value of R when y = 1350</li> </ul>	<ul> <li>Recurring Decimals</li> <li>1) Which of these when converted to decimals are recurring decimals? Circle your answers.</li> </ul>	<b>R</b> (1)	<ul> <li>everse Percentages</li> <li>Work out the price of the car before it was reduced.</li> </ul>	Price reduced 25% off
1)	lied Ratio A drink is mixed in the ratio lemonade : orange : cranberry = 6 : 3 : 2. What fraction is orange?	<ul> <li>2) y is inversely proportional to x2 where x &gt; 0. When x = 2, y = 20. Work out the value of x when y = 5</li> </ul>	$\frac{1}{3}  \pi  \sqrt{3}  \frac{3}{16}  \frac{5}{7}$ 2a) Show that $\frac{4}{9}$ is equivalent to $0.\dot{4}$	2)	) I increase a number by 24%. The answer is 6014. What number of with?	Now £14 625
,	Washing powder is sold in two sizes, 600 grams and 1500 grams. Which size is better value for money?	<ul> <li>3) w is directly proportional to y.</li> <li>When y = 4, w = 14. Work out the value of w when y = 9</li> </ul>	<ul> <li>b) Using part (a), or otherwise, write 0.94 as a fraction.</li> </ul>	3)	<ol> <li>In a sale the normal price of a dress is reduced by 25%. The sale price is then reduced by £10. The dress is now priced at £80. The manager says, "The price is now one-third less than the normal price." Show</li> </ol>	
	Washing powderWashing powder600 g1500 g£3.30Was £9.60 Now 15% off	<ul> <li>4) w is inversely proportional to x2. When x = 2, w = 5. Work out the value of w when x = 10</li> <li>Compound Interest</li> </ul>	3) Convert 0.172 to a fraction in its lowest terms.	4)	<ul> <li>that he is correct.</li> <li>Jane and Laura each h Jane pays £41.80 which £4 tip. Laura also pays includes a 10% tip. Which greater tip?</li> </ul>	h includes a £41.80 which
		1) Loren puts £600 in a bank account. The account pays 3% compound interest		2		
<ol> <li>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. Including the delivery charge, whose saddle is cheaper?</li> </ol>		<ul> <li>each year. After one year she withdraws £200. How much will she have in the account after two years?</li> <li>2) An amount of money was invested for 8 years. It earned compound interest at 2.5% per year. After 8 years the total value of the investment was £11 696.67. Tom is trying to work out the total interest earned. State what is wrong with Tom's method.</li> </ul>		<ul> <li>Exponential Growth and Decay</li> <li>1) The population of Knapsford in 2010 was 3800 and is believed to be grow at a rate of 1.5% a year. Calculate the population of Knapsford in 2011 and 2012.</li> </ul>		
	Here are the ingredients to make 8 biscuits. Work out the ingredients to make 20 biscuits. 75 g flour 50 g sugar 40 g butter 2 egg yolks	3) John bought a 2-year-old car for £ 12 000. Three years later he decides to sell the car; "I think that the value of the car is inversely proportional to its age". John estimates the value of the car using this idea. The actual value of the car depreciates by 20% each year. Work out the difference between John's estimate and the actual value.			<ol> <li>The population of a form of algae is believed to grow exponentially. On day 1 the population of algae was 2240. By day 4 it increased to 35000. Calculate the population of the algae by day 10.</li> </ol>	