


RATIO

Keywords:	Ratio, Sharing, Denominator / Unit form			
Definition / Description:	Ratio: A ratio gives a part – to – part comparison.	Sharing: To share is to equally divide an amount into parts.	Denominator: The bottom number in a fraction, it shows what we are dividing by	Unit form:
Knowledge points:	Sharing in a Ratio	Simplifying a Ratio	Writing a Ratio as a Fraction	Write a Ratio in the for of 1 : n
Knowledge point examples:	<p>A ratio tells us how many equal parts an amount has been split into, and how many equal parts are given to each person.</p> <p>£100 is split into the ratio 2 : 3 and given to John and Hannah.</p> <p>There are 5 equal parts in the ratio (2 + 3), John will get 2 parts and Hannah will get 3.</p> <p>£100 ÷ 5 = £20 (Each part is worth £20)</p> <p>John gets 2 parts (£20 x 2) £40</p> <p>Hannah gets 3 parts (£20 x 3) £60</p>	<p>To simplify a ratio, all parts in the ratio must be divided by the same amount, so we look for the Highest Common Factor.</p> <p>Simplify the Ratio 33 : 72</p> <p>The HCF of 33 and 72 is 3, so we can divide both by 3.</p> <p>$33 \div 3 = 11$ $72 \div 3 = 24$</p> <p>So the ratio becomes 11 : 24</p>	<p>To write a ratio as a fraction, we need to find out how many parts the ratio contains, this will be the denominator of our fraction. The part of the ratio we look at will be the denominator.</p>  <p>Ratio of Circles to Triangles is 1 : 3</p> <p>We have 4 shapes, so our denominator will be 4.</p> <p>What fraction of the shapes are triangles?</p> <p>We have 4 shapes, 3 of which are triangles so the fraction would be $\frac{3}{4}$</p>	<p>To write a Fraction in the for of 1 : n or n : 1, we must make the correct part of the ratio equal to 1.</p> <p>To do this we can divide that part of the ratio by itself. We also need to remember if we divide part of the ratio by a number, all parts must be divided by the same number.</p> <p>Write the ratio 6 : 18 in the for 1 : n</p> <p>Here, the first part of the ratio must equal 1, so we can divide both parts by 6.</p> <p>$6 \div 6 = 1$ $18 \div 6 = 3$ So the ratio becomes 1 : 3</p>
Linked Knowledge Maps	Fractions, Factors , Scale			