

Topic 15: Ratio		Key ideas
<ul style="list-style-type: none"> <input type="checkbox"/> Understand the relationship between ratios and fractions <p>Mathswatch R3</p> <ul style="list-style-type: none"> <input type="checkbox"/> Write equivalent ratios, and find the missing term in a pair of equivalent ratios <p>Mathswatch R5a</p> <ul style="list-style-type: none"> <input type="checkbox"/> Express ratios involving rational numbers in their simplest form <p>Mathswatch R5a</p> <ul style="list-style-type: none"> <input type="checkbox"/> Express ratios in the form $1:n$ and $n:1$ <p>Mathswatch R5a</p> <ul style="list-style-type: none"> <input type="checkbox"/> Make pupils aware of the unitary method <input type="checkbox"/> Interpret $a : b$ and $a : b : c$, where a, b and c are whole numbers <p>Mathswatch R1a</p> <ul style="list-style-type: none"> <input type="checkbox"/> Compare two or more quantities by ratio <p>Mathswatch R1a</p> <ul style="list-style-type: none"> <input type="checkbox"/> Divide a quantity in a given ratio <p>Mathswatch R5b</p> <ul style="list-style-type: none"> <input type="checkbox"/> Find the whole/ one part when a whole is divided into parts in a given ratio <p>Mathswatch R5b</p> <ul style="list-style-type: none"> <input type="checkbox"/> Solve word problems involving ratio <p>Mathswatch R5b</p> <ul style="list-style-type: none"> <input type="checkbox"/> Work out which item is best value for money <p>Mathswatch R4</p>		<p>I can simplify a ratio.</p> <p>I can express a ratio as a fraction.</p> <p>I can divide amounts into given ratios.</p> <p>I can complete calculations from a given ratio and partial information.</p> <p>I can compare prices of products to find the 'best buy'.</p> <p>I can use ratio to solve problems.</p>
Key vocabulary		
Ratio	Numbers, separated by colons, that show how many of one thing there is compared to another. e.g. if a ratio of dogs to cats is 4:1, then there are four dogs for every one cat.	
Equivalent	Two or more values that are equal to each other.	
Fraction	Number that is not a whole number, written as a numerator over a denominator.	
Compare	Describe what is similar and different.	
Rational	A rational number can be written as an integer or a fraction.	
Unitary	The unitary method is a technique which is used for solving a problem by finding the value of a single unit.	
Value for money	Compare the price of the same amount of an item. The item that is cheaper for the same quantity is better value for money.	