Ratio and Proportion

They're Relatively Radical!

What even are they? A ratio is what we use when we want to compare one value to another – we're basically talking about how much of one thing there is, compared to another thing. **Proportion** is what we use when we want to compare a part of a whole or group of things TO the whole or group of things – it's basically just like a fraction.



The ratio of orange to green cupcakes is **1** : **2** The ratio of green to orange cupcakes is **2** : **1** The proportion of orange cupcakes to ALL of the cupcakes is **1 / 3** The proportion of green cupcakes to ALL of the cupcakes is **2 / 3**

Say It Out Loud!

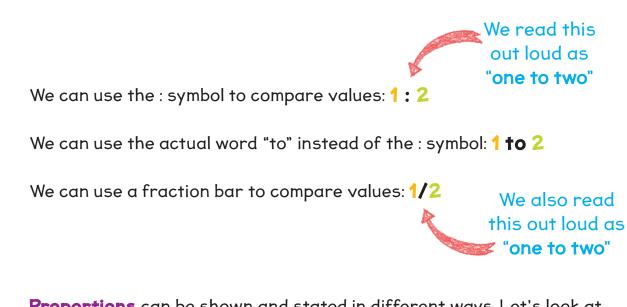
Ratios can be shown and stated in different ways. Let's look at those cupcakes again!



The ratio of orange to green cupcakes is **1** : **2**

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We can use a fraction bar to separate the part from the whole: 1/3

We read this out loud as **"one out of three**"

We can also convert our fraction into a percentage to show our proportion that way! **1/3 = 33%**





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