

## Ratio

A ratio is a way to compare amounts of something. It is usually written in the form a:b



## Highest Common Factor (HCF)

The greatest factor that will divide into the selected numbers. 10 is the highest common factor of 30 and 20



## Simplify

A fraction is simplified when there are no more common factors shared by the numerator and denominator. Eg, the fraction  $\frac{8}{10}$  simplifies to  $\frac{4}{5}$  by dividing the numerator and denominator by the common factor of 2

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## Proportion

Proportion is used to show how quantities and amounts are related to each other. The amount that one quantity changes in relation to another quantity is governed by proportion rules.



## Fraction

A fraction is a part of a whole, for example  $\frac{1}{2}$



## Percentage

A percentage is a proportion that shows a number as parts per hundred. For example, 10% is 10 out of every 100.

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## Difference

The answer to the subtraction of two numbers. For example, the difference between 8 and 2 is 6 as  $8 - 2 = 6$



## Compound interest

This arises when interest on an investment is calculated and added and then this interest payment also earns interest.



## Common factor

A whole number that divides into two (or more) other numbers exactly, eg 4 is a common factor of 8, 12 and 20

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## Multiplier

An amount that each number or numbers will be multiplied by.



## Unitary method

A mathematical method often used with proportional work. The method uses multiplication and division to calculate the value of one item.



## Scale factor (SF)

A number which scales or multiples a quantity.

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## Similar shapes

Shapes that have corresponding sides that are proportional and corresponding angles are equal.



## Proportionality

A relationship between two parts that are in proportion.



## Equation

Equations are made up of two expressions on either side of an equals sign.

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