

Number

What is a numerator?

What is a denominator?

Number

With fractions, what do we mean by:

- 'improper fractions'
- 'mixed numbers'?

Number

What type of calculation is linked to fractions?

How do you turn a fraction into a decimal?

Number

What does the word 'percent' mean?

How do you change a percentage into a decimal?

Number

How do you change a decimal into a fraction?

How do you change a decimal into a percentage?

Number

What is a 'multiple'?

Number

What is a 'factor'?

Number

What do we mean by 'lowest common multiple'?

Number

What do we mean by 'highest common factor'?

<p>A fraction is a division calculation - you divide the numerator by the denominator.</p> <p>You turn a fraction into a decimal by carrying out this division.</p>	<p>An improper fraction is one where the numerator is greater than the denominator.</p> <p>A mixed number is given in whole numbers and fractions. E.g. $2\frac{1}{2}$</p>	<p>A numerator is the number on the top of a fraction.</p> <p>A denominator is the number on the bottom of a fraction</p>
<p>A multiple of a number is anything that appears in its times table.</p> <p>E.g. multiples of 5 are anything in the 5 times table.</p>	<p>To turn a decimal into a fraction, think of how many 'tenths', 'hundredths', 'thousandths' etc there are.</p> <p>E.g. 0.35 is 35 hundredths, or $\frac{35}{100}$</p> <p>To turn a decimal into a percentage, multiply it by 100.</p>	<p>Percent means 'out of 100'.</p> <p>Divide the percentage by 100 to turn it into a decimal.</p>
<p>The highest common factor of two numbers is the highest factor that is shared by both numbers.</p> <p>E.g. the highest common factor of 16 and 12 is 4.</p>	<p>The lowest common multiple of two numbers is the smallest number that they will both go into.</p> <p>E.g. 50 is the lowest common multiple of 10 and 25 go into.</p>	<p>A factor of a number is any positive integer that when multiplied by another gives that number.</p> <p>E.g. $2 \times 12 = 24$, so 2 and 12 are both factors of 24.</p>

Number

What is a cube number?

What are all of the cube numbers up to 53?

Number

What is a square root?

Number

What does 'percentage increase' mean?

What does 'percentage decrease' mean?

Number

What is a prime number?

Number

What is a square number?

What are all the square numbers up to 10^2 ?

Number

How would you find all factors of a number?

Number

How would you find the prime factors of a number?

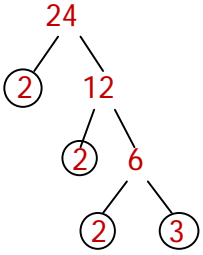
Number

List all of the prime numbers which are less than 20.

Number

How do you know if a fraction is equivalent?

What do we mean by 'simplifying' a fraction?

<p>Percentage increase is how much a number has gone up compared with the original value.</p> <p>Percentage decrease is how much a number has gone down compared with the original value.</p> <p>Change in value $\frac{\text{Change in value}}{\text{Initial value}} \times 100$</p>	<p>A square root is the opposite of a square number.</p> <p>i.e. 'What number has been multiplied by itself to give this?'</p> <p>e.g. the square root of 25 is 5</p>	<p>A cube number is when a number has been multiplied by itself, then multiplied by the original number again.</p> <p>e.g. $3 \times 3 \times 3$</p> <p>$13 = 1$</p> <p>$23 = 8$</p> <p>$33 = 27$</p> <p>$43 = 64$</p> <p>$53 = 125$</p>
<p>You find all of the factors of a number by listing them in pairs.</p> <p>e.g. factors of 24:</p> <p>1 and 24</p> <p>2 and 12</p> <p>3 and 8</p> <p>4 and 6</p>	<p>A square number is where you multiply a number by itself.</p> <p>$1^2 = 1$</p> <p>$2^2 = 4$</p> <p>$3^2 = 9$</p> <p>$4^2 = 16$</p> <p>$5^2 = 25$</p> <p>$6^2 = 36$</p> <p>$7^2 = 49$</p> <p>$8^2 = 64$</p> <p>$9^2 = 81$</p> <p>$10^2 = 100$</p>	<p>A prime number is one that can only be divided by itself or 1.</p> <p>You could also say it is a number that only has one pair of factors.</p> <p>1 is not a prime number as it only has one factor.</p>
<p>A fraction is equivalent if the numerator and denominator have been multiplied (or divided) by the same amount.</p> <p>Simplifying a fraction is where you give it in its lowest terms - when the highest common factor of the numerator and denominator is 1.</p>	<p>2, 3, 5, 7, 11, 13, 17, 19</p>	<p>You find the prime factors of a number using a prime factor tree</p> 

Teaching notes

This pack contains 18 flash cards (9 per double-sided sheet).

Print or photocopy the sheets back to back, so the questions match up with the answers on the other side. It may be best to print onto scrap paper first to check alignment, before printing onto thicker card or paper.

Collect the cards together into a set with a treasury tag, paper clip, envelope, etc.

Students should be encouraged to take ownership of their cards by colour-coding, adding notes, or adding their own cards to the pack.

Cards can be used for independent revision or a 'test' with a friend asking the questions.