

Whole Numbers

0, 1, 2, 3, 4, 5 ...

Integers

... -3, -2, -1, 0, 1, 2, 3, ...

Prime Numbers

Has only 1 and itself as factors

Factor

A number that divides exactly into another

Multiple

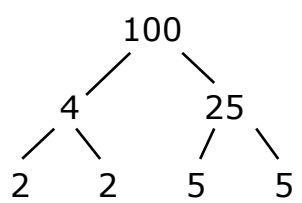
A number multiplied by a whole number

Highest Common Factor (HCF)

The largest number that divides exactly into both given numbers

Lowest Common Multiple (LCF)

The smallest number that is a multiple of both given numbers

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| <p>Multiples of 4</p> | <p>4, 8, 12, 16, 20 ...</p> |
| <p>Factors of 20</p> | <p>1, 2, 4, 5, 10, 20</p> |
| <p>Prime Numbers</p> | <p>1, 2, 3, 5, 7, 11, 13, 17, 19 ...</p> |
| <p>Prime Factorisation</p> | <p>How a number breaks into a series of prime numbers multiplied together</p> |
| <p>Prime Factorisation of 100</p> |  <pre> graph TD 100 --- 4 100 --- 25 4 --- 2 4 --- 2 25 --- 5 25 --- 5 </pre> |
| <p>Rational Number</p> | <p>Any number that can be written as a fraction or decimal</p> |
| <p>Digit</p> | <p>The symbols 0, 1, ... 9 we use to make numbers</p> |

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|-----------------------------|--|
| Numerator | Top line of a fraction |
| Denominator | Bottom line of a fraction |
| Decimal Place | A digit after the decimal point |
| Equivalent Fractions | Two fractions that are the same number written differently e.g. $\frac{2}{8} = \frac{1}{4}$ |
| Improper Fraction | When the numerator is bigger than the denominator e.g. $\frac{15}{8}$ |
| Mixed Number | A number written as combination of whole number and fraction e.g. $3\frac{5}{8}$ |
| Product | The result of multiplying two numbers |

| | |
|--|---|
| <p>Square Number</p> | <p>The result of a whole number multiplied by itself</p> <p>e.g. 1, 4, 9, 16, 25 ...</p> |
| <p>Square Root</p> | <p>The number which multiplied by itself gives the number</p> <p>e.g. $\sqrt{100} = 10$</p> |
| <p>Maximum and Minimum</p> | <p>Largest and Smallest</p> |
| <p>Less than symbol and Greater than symbol</p> | <p>$<$ and $>$</p> <p>$3 < 5$ $2 > -5$</p> |
| <p>Exponent</p> | <p>The power a number is raised to</p> <p>10^4 ←</p> |
| <p>Standard Form (or Scientific Notation)</p> | <p>Y10</p> <p>3.2×10^4</p> |
| <p>Significant Figure</p> | <p>Y10</p> <p>The digits counting from the first non-zero one</p> |