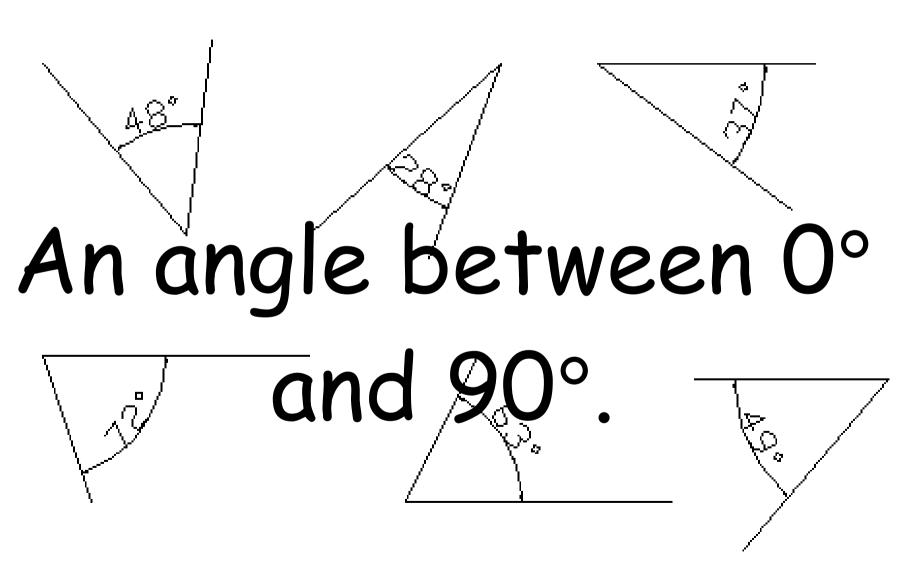


Acute



Arc

A portion of a curve.

Often used for a portion of a circle.

Approximation



A number or result that is not exact.

Associative

A binary operation * on is associative if a * (b * c) = (a * b) * c

+ & x are associative

Area

A measure of surface.

Measured in square

units e.g. cm², m²

Arithmetic mean The sum of quantities divided by the number of quantities.

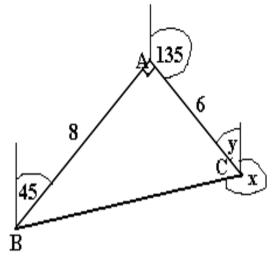
Arithmetic Sequence

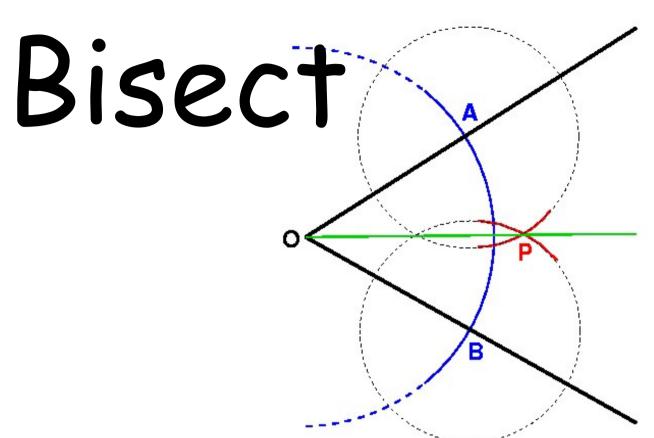
A sequence of numbers in which terms are generated by + or - a constant amount to the preceding term.

Bearing

The direction of a line given as an angle measured in degrees from north in a clockwise

direction.

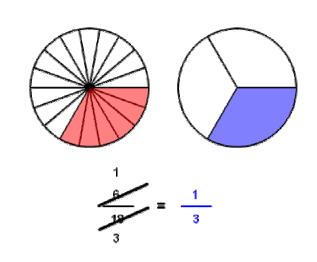




In geometry, to divide into two equal parts.

Cancel

(a fraction)



One way to simplify a fraction. The numerator and denominator are divided by a common factor.

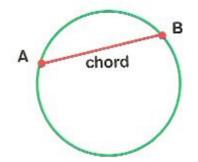
Capacity

Volume, i.e. a measure of three-dimensional space, applied to liquids

Centi.

Prefix meaning onehundredth (of)

Chord



A straight line segment joining two points on a circle.

Circumference



The length of a circle (its perimeter).

Coefficient

A factor of an algebraic term. E.g. in the term 4xy, 4 is the numerical coefficient of

XY

Commutative

A binary operation * on is commutative if If a * b = b * a

+& x are commutative

Complement

In addition, a number and its complement have a given total.

Complementary

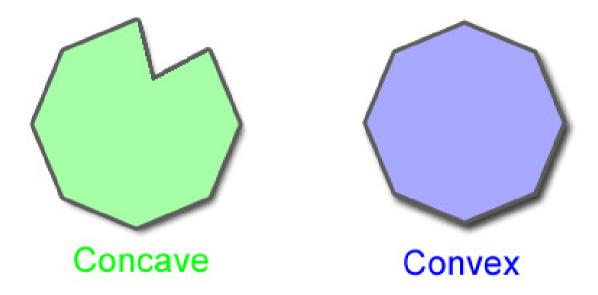
angles

Two angles with the sum of 90°.

Compound measures

Measures with 2 or more dimensions. E.g.: speed & density

Concave



Curving inwards.

Concentric

Used to describe circles that have the same centre.

Congruent (figures) ** Shapes that are identical.

Noun: congruence.

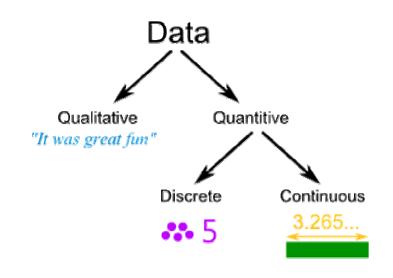
Consecutive numbers

Are numbers that follow an order

Constant

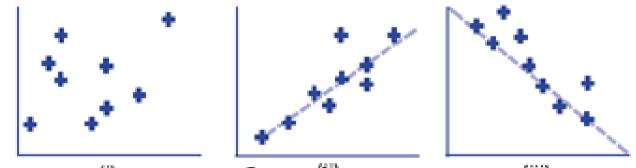
A number or quantity that does not vary. E.g.: in the equation y = 3x + 6, the 3 & 6 are constants, where x & y are variables.

Continuous data



Data from measurements i.e: lengths, weights which are measured. Continuous data is usually grouped e.g. $130 \le x < 140$

Correlation



A measure of the strength of the relationship between two variables.

Counter example

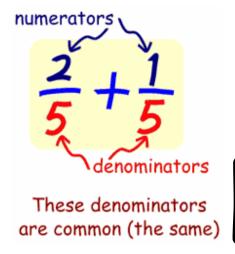
Is a an example that clearly disproves a statement

Cyclic

quadrilateral

A four sided figure whose vertices lie on a circle.

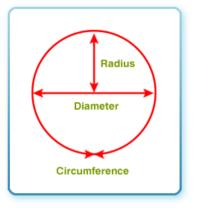
C



These denominators are common (the same) Charles Denominators are common (the same)

In a fraction, the number written below the line.

Diameter



Any of the chords of a circle or sphere that pass through the centre.

Discrete data Data that can be counted e.g.: number of red cars

Distributive

An operation * is distributive if a * (b · c)=

 $(a * b) \cdot (a * c)$

multiplication is distributive.

Divisibility

The property of being divisible by a given number.

Divisor

The number by which another is divided.

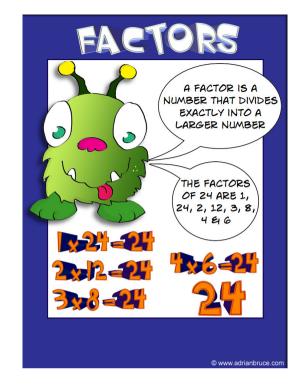
30 ÷ 6 = 5, the divisor is 6, 30 is the Dividend and 5 is the quotient.

Exponent

Also known as index, a number, positioned above and to the right of another, indicating repeated multiplication.

Factor

Numbers that can divide exactly into



a number E.g.: 1, 2,3, 4, 6 and 12 are all factors of 12

Factorise

To express a number or polynomial as the product of its factors. E.g.: The factors of x^2 - 4x - 21 are (x + 3) and (x - 7)

EamC Formula An equation linking sets of physical variables.

Plural: formulae.

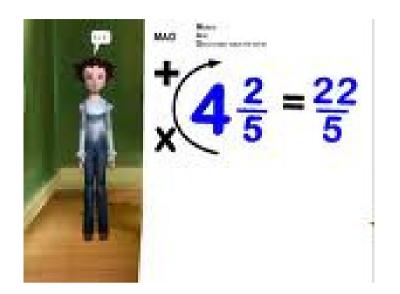
Gradient A measure of the slope of a line.

Identity

An equation that holds for all values of the variables. The symbol \equiv is used. Example:

 $a^2 - b^2 \equiv (a + b)(a - b).$

Improper fraction



Has a numerator that is greater than its denominator.

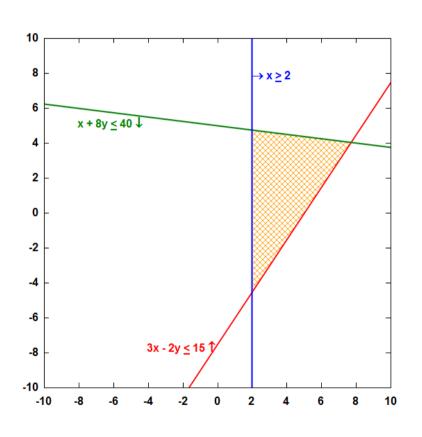
Index notation

$$a^{n} = \underbrace{a \times a \times a \times ... \times a \times a}_{"n" lots of "a"}$$

The notation in which a product such as

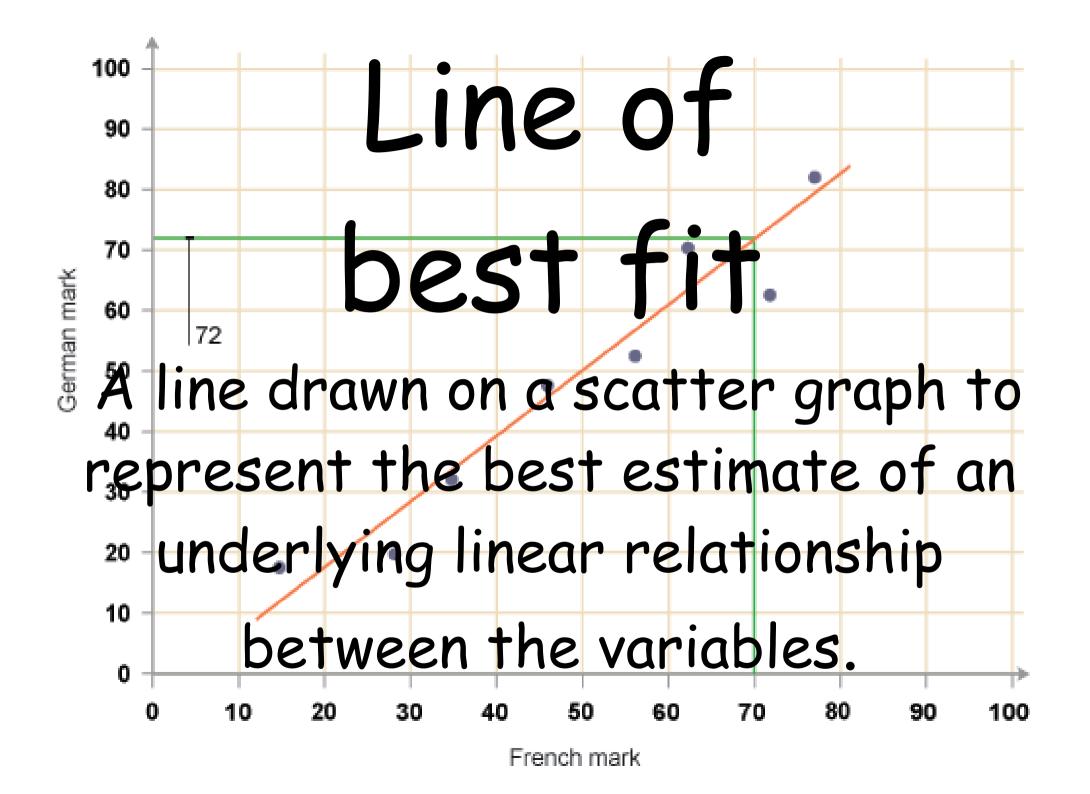
 $a \times a \times a \times a$ is recorded as a^4 .

Inequality



Statements such as a ≠ b, a ≤bora>bare inequalities.

Irrational number Numbers that produce infinite, non-recurring decimals e.g. $\sqrt{5}$ and π .



Linear

In algebra, describing an expression or equation of degree one. E.g:2x + 3y = 7 is a linear equation & can be represented as a straight line graph.

Median

The middle number or value when all values in a set of data are arranged in ascending order.

Mode

The most commonly occurring value or class with the largest frequency.

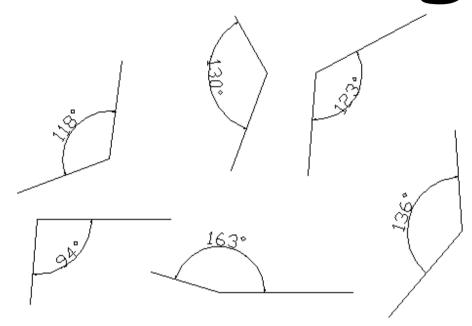
Mutually exclusive events

In probability, events that cannot both occur at the same time. The sum of mutually exclusive probabilities is 1.

Natural number

The counting numbers 1, 2, 3, etc.

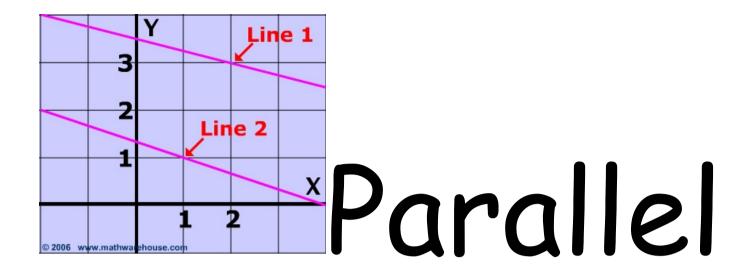
Obtuse angle



An angle greater than 90° but less than 180°.

ath of any circle y the length of its diameter is a constant, π . π is an irrational number. One common ration for is 22/7. 3.14159265 is a more accurate approximation, to 8 decimal places.

Perpendicular A line or plane that is at right angles to another line or plane.



Two lines that are always equidistant. Parallel lines never cross.

Perimeter

The total distance around the boundary of a shape.

Plane

A flat surface.

Prime number

A whole number greater than

Probability The likelihood of an event happening. Probability is expressed on a scale from 0 to 1.

Protractor



An instrument for measuring angles.

Quadratic

Describing a expression of the form $ax^2 + bx + c$ where a, b and c are real numbers.

Radius

Centre Radius

In relation to a circle, the distance from the centre to any point on the circle.

Random sample

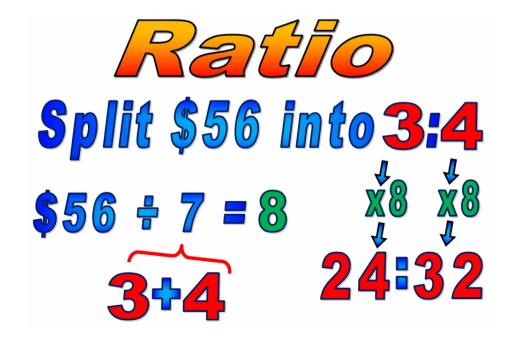
In statistics, a selection from a population where each sample of this size has an equal chance of being selected.

Range

A measure of spread in statistics. The difference between the greatest value and the least value in a set of numerical data.

Ratio A part to part comparison.





Proportion

A part to whole comparison

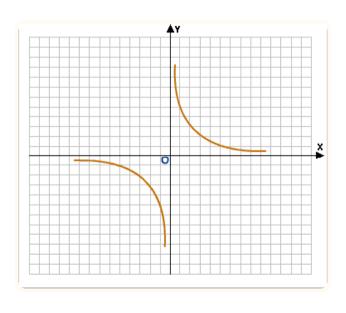
Rational number

A number that is an integer or that can be expressed as a fraction whose denominator is not zero. Rational numbers, when expressed as decimals, are recurring decimals or finite (terminating) decimals. Numbers that are not rational are irrational.

Reciprocal

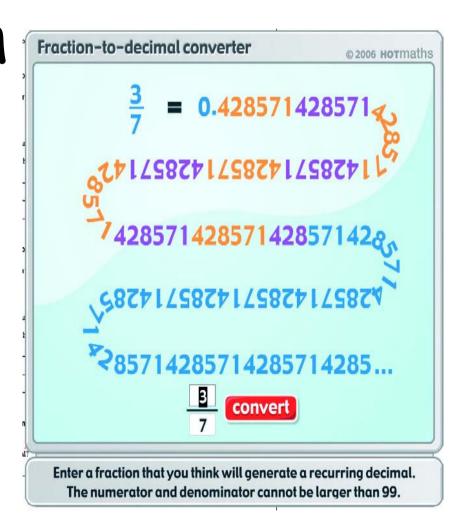
The multiplicative inverse of any non-zero number.

Example:1/3 is the reciprocal of 3.



Recurring decimal

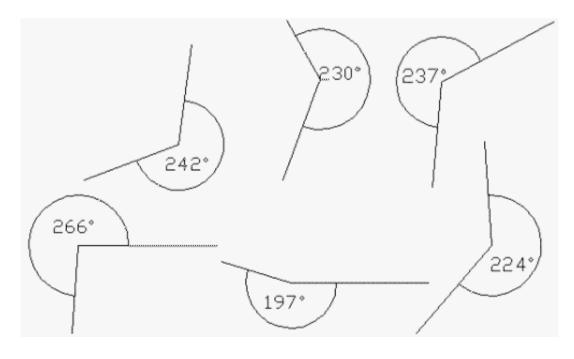
A decimal with an infinitely repeating digit or group of digits.



Reflex angle

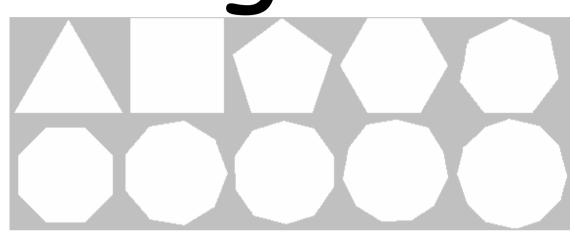
An angle that is greater

than but than



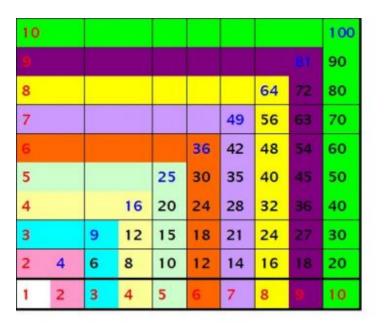
180°
less
360°

Regular



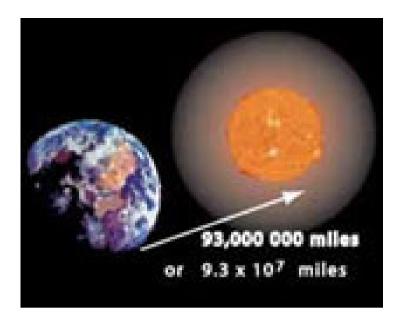
A polygon, having all sides equal and all internal angles equal.

Square number



A number that can be expressed as the product of two equal numbers. Example $36 = 6 \times 6$ and so 36 is a square number.

Standard index form



A form in which numbers are recorded as a number between 1 & 10 multiplied by a power of ten. E.g.: 1930 in standard index form is 1.93×10^3 .

Stratified sample

Where a population has been divided into strata/groups based on common characteristics. E.g.: for a school survey the pupils might be divided into age groups. A sample drawn at random from each age group should be proportional to the relative sizes of the different age group for greater precision.

Surd

An irrational number expressed as the root of a natural number $E.g.: 3\sqrt{2}$

or a numerical expression involving irrational roots.

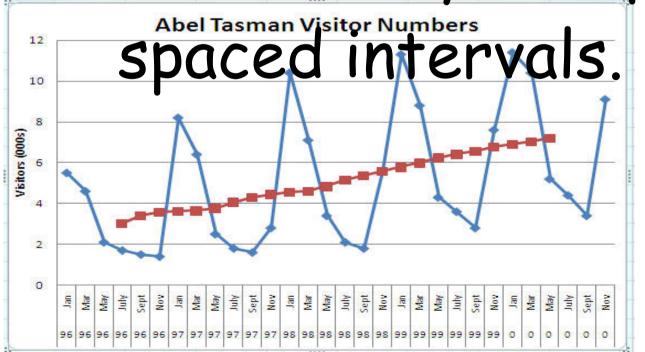
E.g.: $3 + 2\sqrt{7}$.

Tangent

A line that touches a curve at one point only.

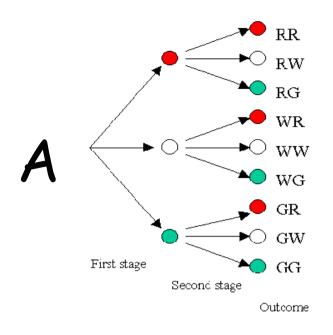
Time series

A set of observations, generally measurements or counts, taken over time usually at equally



Translation

A transformation in which every point of a body/shape moves the same distance in the same direction.

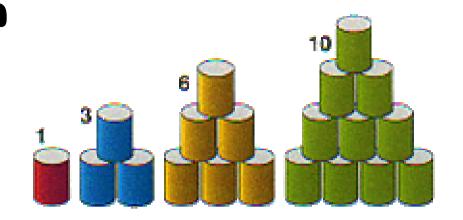


Tree diagram

branching, decision diagram in which probabilities may be

assigned to each branch and used to determine the probability of any outcome of combined or compound events.

Triangular number



A number that can be represented by a triangular array of dots with the number of dots in each row from the base decreasing by one.

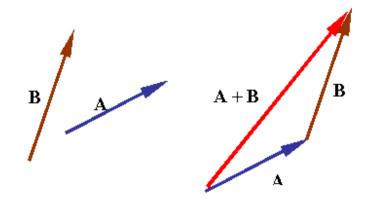
Trigonometric functions

Functions of angles. The main trigonometric functions are cosine, sine and tangent.

Uniform

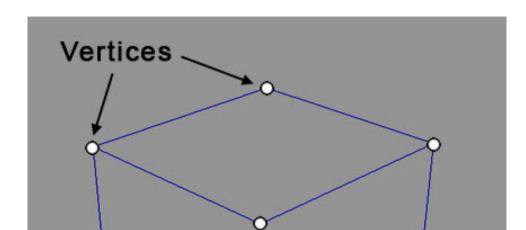
Not changing.
Remaining constant.

Vector



A quantity that has magnitude and direction.

Vertex



The point at which two or more lines intersect. Plural: vertices. Also can be describes as

corners.

Unit fraction

A fraction that has 1 as the numerator and whose denominator is a nonzero integer. Example: $\frac{1}{2}$

