

# Math Words



**A** **addition** sum, increase, more than (Lesson 11)

**algebraic expression**

numbers, letters, and/or symbols connected by an operation or operations (Lesson 12)

**alternate exterior angles** two nonadjacent angles on opposite sides of a transversal, both outside two lines (Lesson 8)

**alternate interior angles** two angles on opposite sides of a transversal, both between two lines (Lesson 8)



**B** **base** the number that is multiplied by itself; in  $8^3$ , 8 is the base (Lesson 1)



**C** **closed half-plane** a half-plane that includes the boundary line (Lesson 24)

**complement of a set** the elements that are NOT in the set (Lesson 28)

**congruent** having exactly the same shape and size (Lesson 9)

**converse** an *if... then* statement that has its "if" and "then" parts reversed (Lesson 10)

**corresponding angles** two nonadjacent angles on the same side of a transversal, one between two lines and one outside the lines (Lesson 8)



**C** **corresponding angles of polygons** angles that are in the same position in each polygon (Lesson 9)



**D** **disjoint sets** sets with no objects or elements in common (Lesson 28)

**division** quotient, divided by, equal groups (Lesson 11)



**E** **empty set** a set with nothing in it (Lesson 28)

**equation** a math sentence with an equal (=) sign (Lesson 1)

**exponent** the number of times the base is used as a factor (Lesson 1)



**F** **factor** a number (or term) that divides evenly into another number (or term) (Lesson 5)

**function** a relation in which each first value is paired with one and only one second value (Lesson 18)

**fundamental counting principle** multiply the ways each event can happen to find the way events can happen together (Lesson 29)



**H** **hypotenuse** side of a right triangle that is opposite the right angle (Lesson 10)



**I** **independent events** one event does not affect the other event (Lesson 30)

**inequality** a math sentence that uses  $<$ ,  $>$ ,  $\leq$ , or  $\geq$  to show that two quantities are not equal (Lesson 16)

**integers** the set of whole numbers and their opposites (Lesson 4)

**intersection of sets** the objects or elements that sets have in common (Lesson 28)

**inverse operation** an operation that undoes a given operation (Lesson 13)

**irrational number** any number that cannot be written as a fraction using integers, such as  $\sqrt{7}$ ,  $\pi$ , and  $\sqrt{93}$  (Lesson 4)



**L** **legs** the two shorter sides of a right triangle (Lesson 10)

**line of best fit** a line on a scatter plot that most of the points are close to (Lesson 31)

**linear relation** a relation with a graph that is a line (Lesson 23)



**M** **multiplication** product, times, double (Lesson 11)



**N** **negative correlation** where the line of best fit slopes down (Lesson 31)

**nonlinear relation** a relation with a graph that is NOT a line (Lesson 23)

**null set** a set with nothing in it (Lesson 28)

**number pattern** a sequence of numbers that follows a rule (Lesson 21)



**O** **open half-plane** a half-plane that does not include the boundary line (Lesson 24)

**ordered pair** a pair of numbers that can be graphed as a point on a coordinate plane (Lesson 18)



**P** **parallel lines** lines in the same plane that never meet (Lesson 8)

**perfect square** a number whose square root is a whole number (Lesson 3)

**polygon** a closed figure with 3 or more sides (Lesson 9)

**positive correlation** where the line of best fit slopes up (Lesson 31)

**P** **power of 10** a number having 10 as a base (Lesson 2)

**probability** a ratio that measures the chance that an event will happen (Lesson 30)

**Pythagorean Theorem**  $a^2 + b^2 = c^2$ , where  $a$  and  $b$  are legs of a right triangle, and  $c$  is the hypotenuse (Lesson 10)

**R** **radical sign** symbol for a root (Lesson 3)

**radicand** number under the radical sign (Lesson 7)

**rational number** any number that can be written as a fraction using integers (0 is never the denominator) (Lesson 4)

**relation** a set of ordered pairs (Lesson 18)

**repeating decimal** a decimal with a repeating digit or group of digits (Lesson 4)

**S** **scatter plot** a graph of data points (Lesson 31)

**scientific notation** a way of writing very large or very small numbers as the product of a number  $\geq 1$  and  $< 10$  and a power of 10 (Lesson 2)

**sequence** a list of numbers (Lesson 21)

**set** a collection of objects or elements (Lesson 28)

**S** **slope** a measure of the steepness of a line (Lesson 20)

**slope-intercept form of an equation**  $y = mx + b$  (Lesson 22)

**square** the product of a number and itself (Lesson 3)

**square root** one of two equal factors of a number (Lesson 3)

**standard notation** a way of writing a number without using an exponent (Lesson 2)

**subset** a set where every element is also an element of another set (Lesson 28)

**subtraction** difference, decrease, less than (Lesson 11)

**system of linear equations** two or more linear equations (Lesson 26)

**T** **term** a number, variable, or product of a number and one or more variables (Lesson 14)

**terminating decimal** a decimal that has a fixed number of digits (Lesson 4)

**transversal** a line that crosses other lines at different points (Lesson 8)

**tree diagram** a way of showing all outcomes of independent events (Lesson 29)

**U** **union of sets** the objects or elements in any of the sets (Lesson 28)

**V** **variable** a letter that represents a number (Lesson 12)

**Venn diagram** a picture, usually of one or more circles inside a rectangle, that shows how sets are related (Lesson 28)

**vertical line test for functions** a vertical line crosses only one point on the graph (Lesson 18)

**X** **x-coordinate** the first number of an ordered pair (Lesson 20)

**Y** **y-coordinate** the second number of an ordered pair (Lesson 20)

**y-intercept** the y-coordinate of the point where the line crosses the y-axis (Lesson 22)

My Math Words

A series of horizontal lines for writing, organized into two columns under the 'My Math Words' header.