FCAT

FLORIDA COMPREHENSIVE ASSESSMENT TEST

Glossary

E – Elementary **M** – Middle School **H** – High School

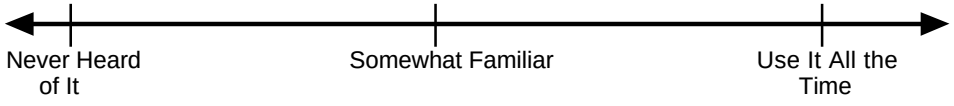
The Administrator
Assessment and Evaluation Services
Florida Department of Education
Turlington Building, Room 414
325 West Gaines Street
Tallahassee, Florida 32399-0400

GLOSSARY

The terms defined in this glossary pertain to the ***Sunshine State Standards*** in mathematics for grades 3 -10 and the content assessed on FCAT in mathematics.

Absolute value a number's distance from zero (0) on a number line. H
For example: |3| = |-3|

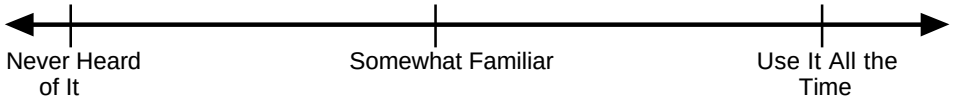
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Acute angle an angle that measures less than 90^o and greater than 0^o. E

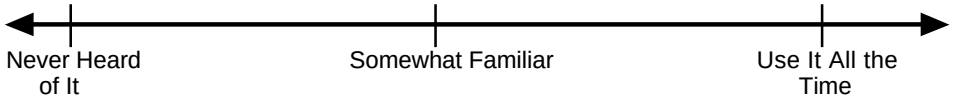
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Additive identity the number zero (0); that is, adding 0 does not change a number's value (e.g., 5 + 0 = 5). H

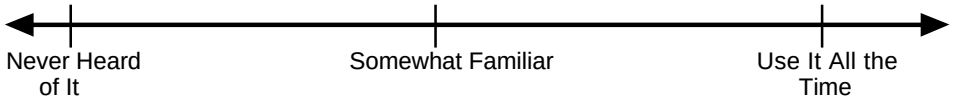
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Additive inverse Property a number and its additive inverse have a sum of zero (0) (e.g., in the equation 3 + -3 = 0, 3 and –3 are additive inverse of each other). H

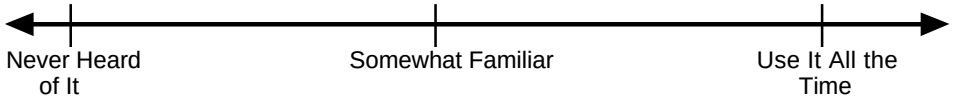
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Algebraic equation a mathematical sentence in which two expressions are connected by an equality symbol. H

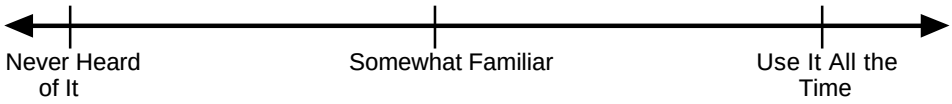
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Algebraic expression an expression containing numbers and variables (e.g., 7***x***), and operations that involve numbers and variables (e.g., 2***x*** + ***y*** or 3***a*** – 4). Algebraic expressions do not contain equality or inequality symbols. H

Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Algebraic order of operations the order of performing computations is parentheses first, then exponents, followed by multiplication and/or division, then addition and/or subtraction. For example: H

$5 + (12 - 2) \div 2 - 3 \times 2$

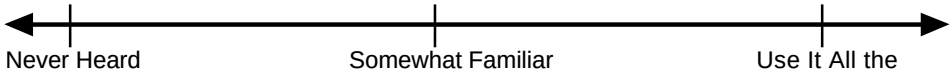
$5 + 10 \div 2 - 3 \times 2$

$5 + 5 - 6$

$10 - 6$

4

Mark on the line your knowledge of this word.

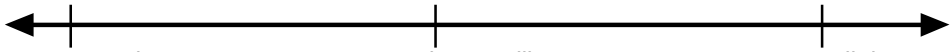


Never Heard of It | Somewhat Familiar | Use It All the Time

Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Algebraic rule a mathematical expression that contains variables and describes a pattern or relationship. E

Mark on the line your knowledge of this word.

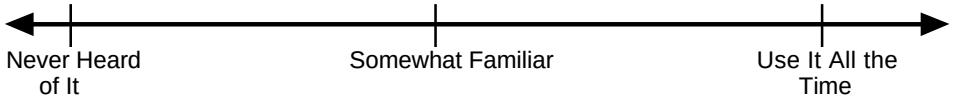


Never Heard of It | Somewhat Familiar | Use It All the Time

Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Altitude the perpendicular distance from a vertex in a polygon to its opposite side. H

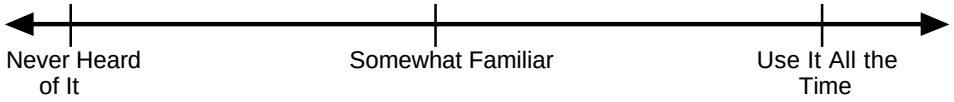
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Angle the shape made by two rays extending from a common end point, the vertex. Measures of angles are described using the degree system. E

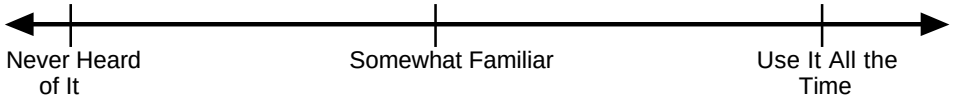
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Area the inside region of a two-dimensional figure measured in square units (e.g., a rectangle with sides of 4 units by 6 units contains 24 square units or has an area of 24 square units). E

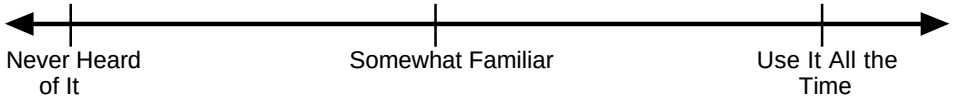
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Associative property the way in which three or more numbers are grouped for addition or multiplication does not change their sum or product [e.g., (5 + 6) + 9 = 5 + (6 + 9) or (2 x 3) x 8 = 2 x (3 x 8)]. M

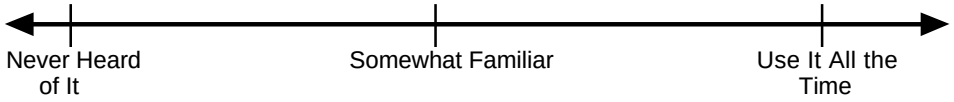
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Axes (of a graph) the horizontal and vertical number lines used in a rectangular graph or coordinate grid system. E

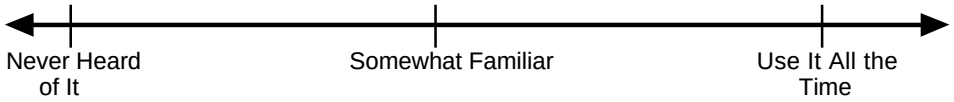
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Bar graph a graph that uses bars to display data. E

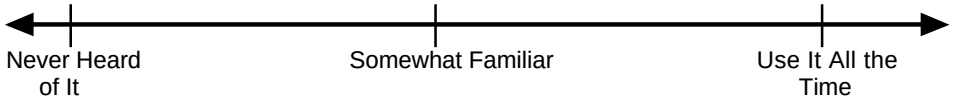
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Base the line or plane upon which a figure is thought to rest. E

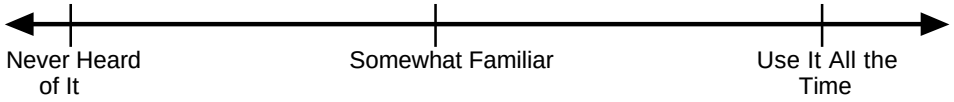
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Break a zigzag on the line of the ***x***- or y-axis in a line or bar graph indicating that the data being displayed do not include all of the values that exist on the number line used. Also called a ***Squiggle***. M

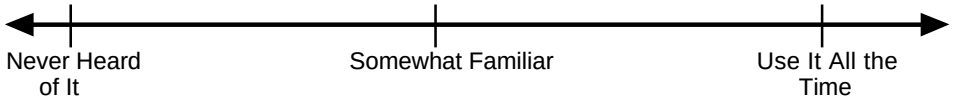
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Capacity the amount of space that can be filled. Both capacity and volume are used to measure three-dimensional spaces; however, capacity usually refers to fluids, whereas volume usually refers to solids. E

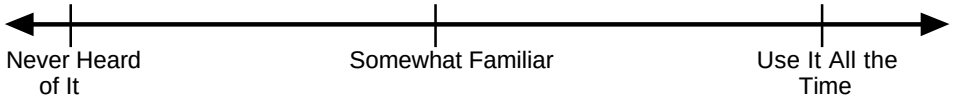
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Central angle an angle that has its vertex at the center of a circle. M

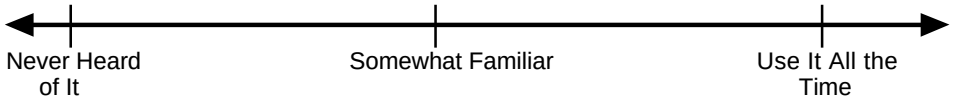
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Chart a data display. M

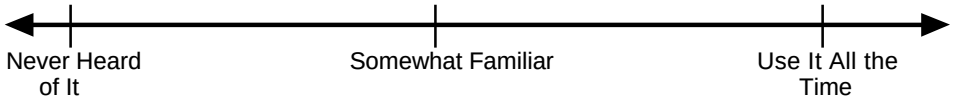
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Circle graph a data display. M

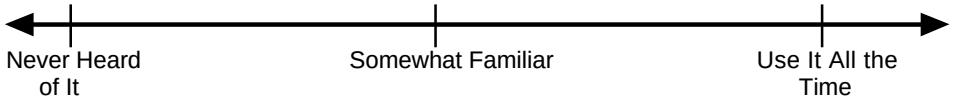
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Circumference the perimeter of a circle is called its circumference. M

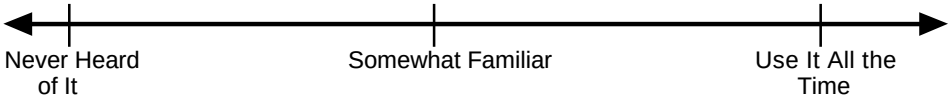
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Closed figure a two-dimensional figure whose beginning and ending points meet, such that the plane in which the figure lies is divided into tow parts–the part inside the figure and the part outside the figure (e.g., circles, squares, rectangles). E

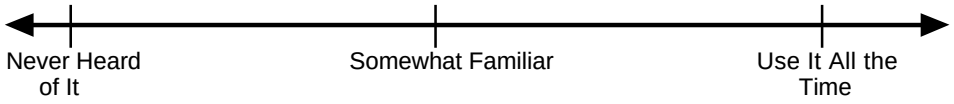
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Commutative property the order in which two numbers are added or multiplied does not change their sum or product (e.g., 2 + 3 = 3 + 2 or 4 x 7 = 7 x 4). M

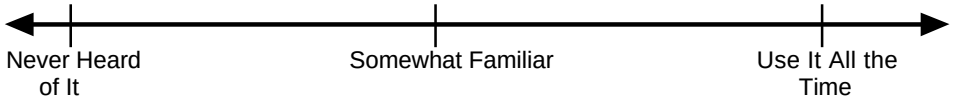
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Complementary angles two angles, the sum of which is exactly 90^{o}. M

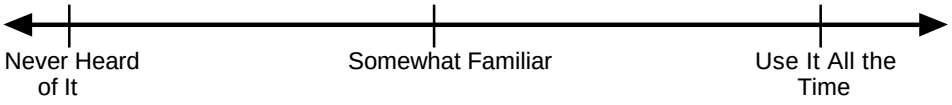
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Composite number a whole number that has more than two factors. E

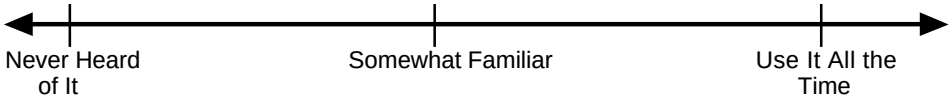
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Concrete representations of numbers having a definite form or relating to an actual object. M

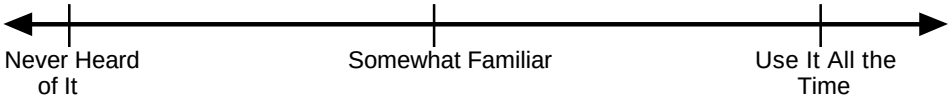
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Congruent a term describing figures or objects that are the same shape and size. E

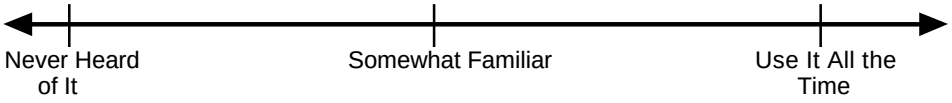
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Coordinate grid or System a network of evenly spaced, parallel, horizontal and vertical lines especially designed for locating points, displaying data, or drawing maps. E

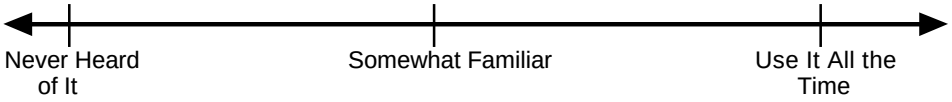
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Coordinates numbers that correspond to points on a coordinate graph in the form (***x***, y), or a number that corresponds to a point on a number line. M

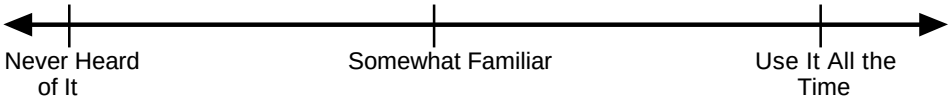
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Counting principle if a first event has ***n*** outcomes and a second event has ***m*** outcomes, then the first event followed by the second event has ***n*** x ***m*** outcomes. M

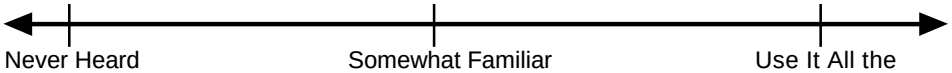
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Customary units the units of measure developed and used in the United States. Customary units for length are inches, feet, yards, and miles. Customary units for weight are ounces, pounds, and tons. Customary units for volume are cubic inches, cubic feet, and cubic yards. Customary units for capacity are fluid ounces, cups, pints, quarts, and gallons. E

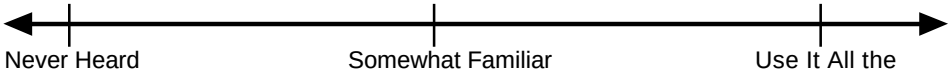
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Cylinder a three-dimensional figure with two parallel bases that are congruent circles. M

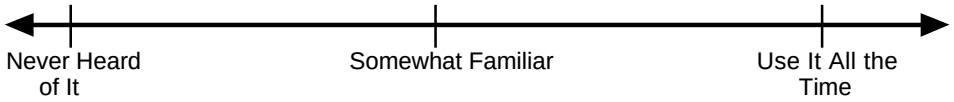
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Data displays/ graphs different ways of displaying data in tables, charts, or graphs, including pictographs, circle graphs, single-, double-, or triple-bar and line graphs, histograms, stem-and-leaf plots, box-and-whiskers plots, and scatter plots. M

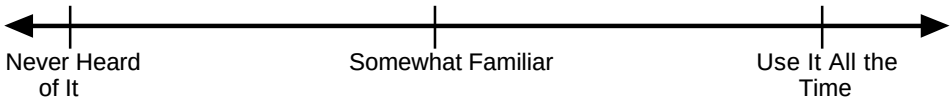
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Decimal number any number written with a decimal point in the number. A decimal number falls between two whole numbers (e.g., 1.5 falls between 1 and 2). Decimal numbers smaller than 1 are sometimes called decimal fractions (e.g., five-tenths is written 0.5). E

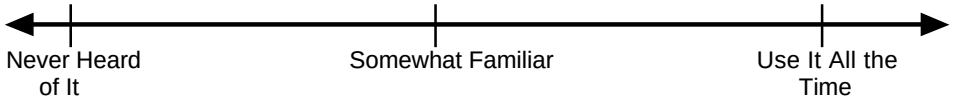
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Diameter a line segment from any point on the circle passing through the center to another point on the circle. M

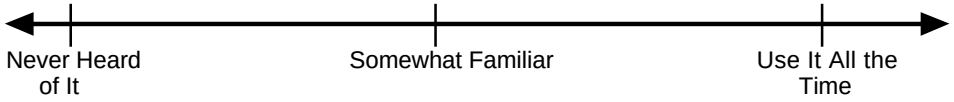
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Direct measure obtaining the measure of an object by using measuring devices, either standard devices of the customary or metric systems, or nonstandard devices such as a paper clip or pencil. E

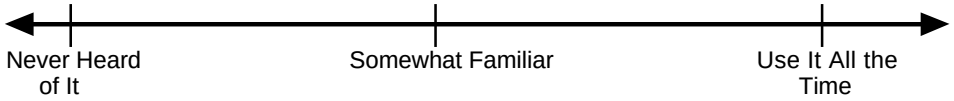
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Distributive property for any real numbers ***a***, ***b***, and ***x***, x(***a*** + ***b***) = ax + ***bx***. M

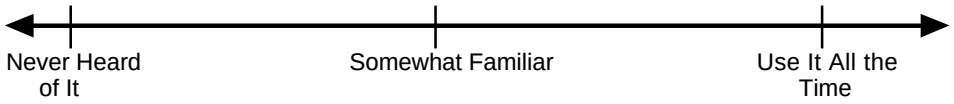
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Divisible a term describing a number capable of being divided into equal parts without a remainder. E

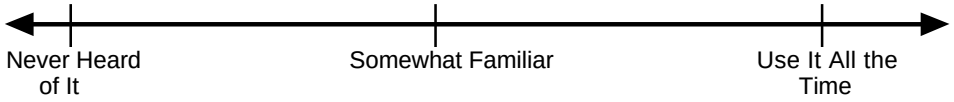
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Effects of operations the results of applying an operation to given numbers (e.g., adding two whole numbers results in a number greater than or equal to the original numbers. E

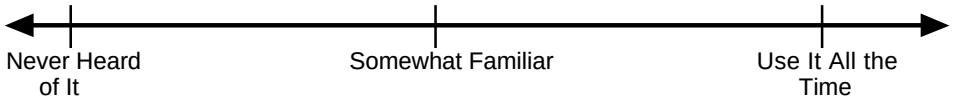
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Empirical probability the likelihood of an event happening that is based on experience and observation rather than on theory. E

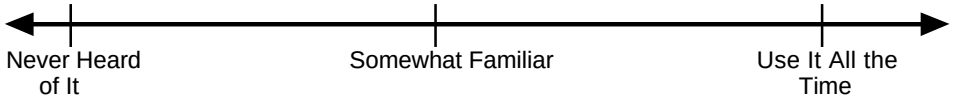
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Enlargement an increase in size in all dimensions by a uniform amount. M

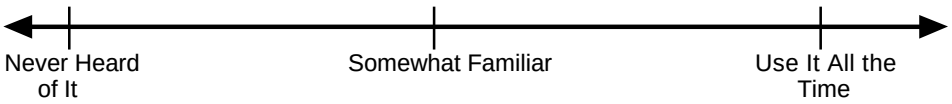
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Equation a mathematical sentence (e.g., 2***x*** = 10) that equates one expression (2***x***) to another expression (10). E

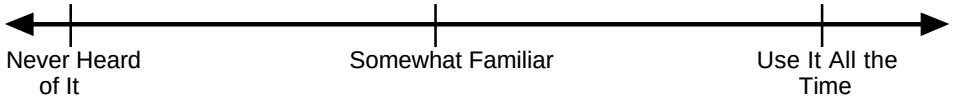
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Equivalent expressions expressions that have the same value but are presented in a different format using the properties of numbers. [e.g., ***ax*** + ***bx*** = (***a*** + ***b***)x]. M

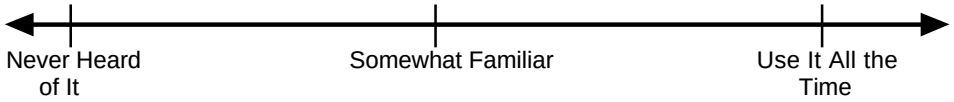
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Equivalent forms of a number the same number expressed in different forms (e.g., $\frac{3}{4}$, 0.75, 75%). E

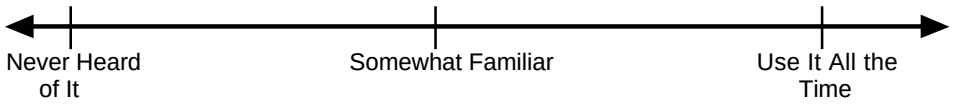
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Explain in words directions requesting a written description of the procedures for finding the solution to the problem presented. E

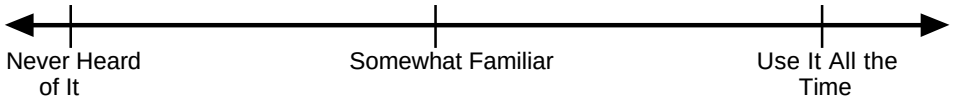
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Exponent (exponential form) the number of times the base occurs as a factor. For example, 2^3 is the exponential form of 2 x 2 x 2. The numeral 2 is called the base, and the numeral 3 is called the exponent. M

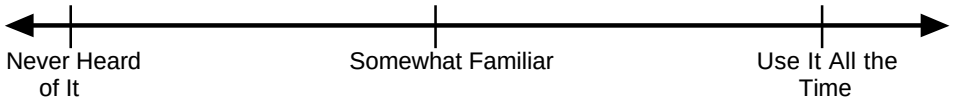
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Expression a collection of numbers, symbols, and/or operation signs that stands for a number. E

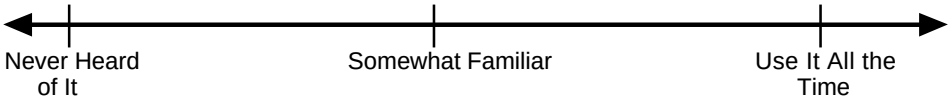
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Extrapolate to estimate or infer a value or quantity beyond the known range. M

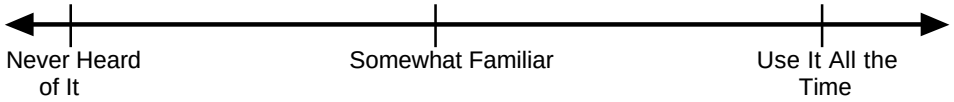
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Face one of the plane surfaces bounding a three-dimensional figure (a side). E

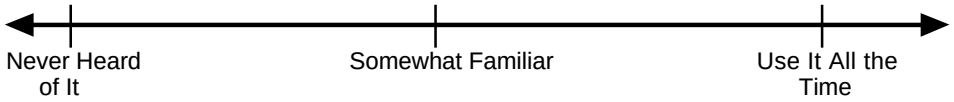
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Factor a number or expression that divides exactly another number (e.g., 1, 2, 4, 5, 10, and 20 are factors of 10). E

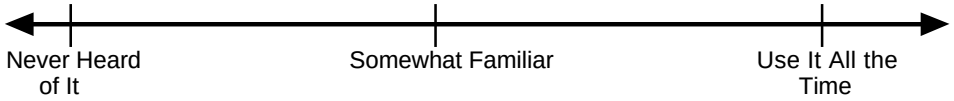
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Finite graph a graph having definable limits. H

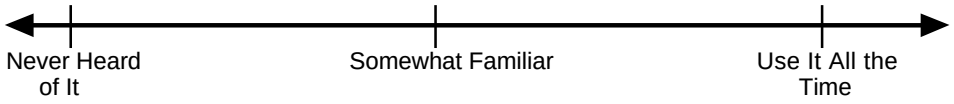
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Flip a transformation that produces the mirror image of a geometric figure. E
Also called a ***Reflection***.

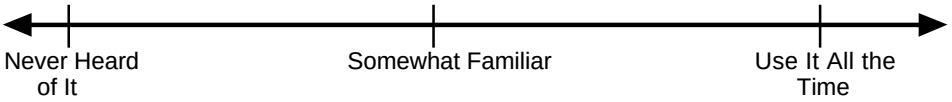
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Fraction any part of a whole is called a fraction (e.g., one-half written in fractional form is $\frac{1}{2}$). E

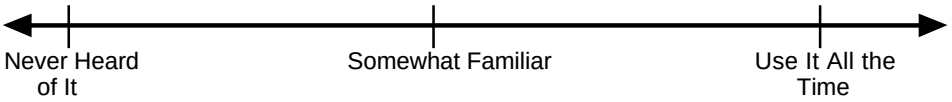
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Function a relation in which each value of ***x*** is paired with a unique value of y. E

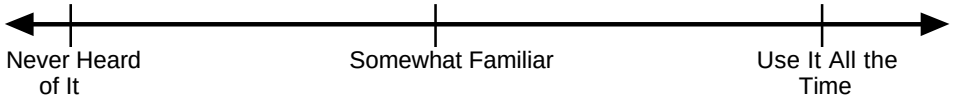
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Function table a table of ***x***- and ***y***-values (ordered pairs) that represents the function, pattern, relationship, or sequence between the two variables. M

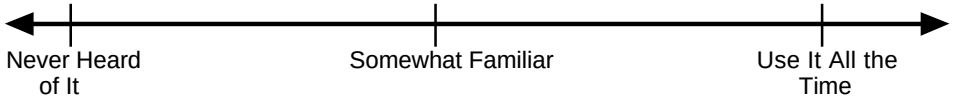
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Grid a network of evenly spaces, parallel, horizontal, and vertical lines. E

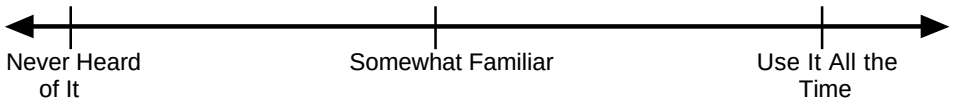
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Height a line segment extending from the vertex or apex of a figure to its base and forming a right angle with the base or basal point. E

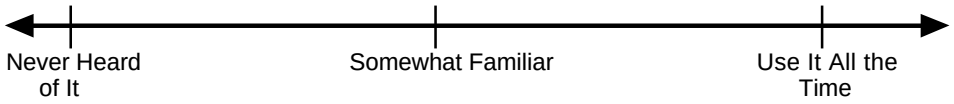
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Hypotenuse in a right triangle, the side opposite the right angle. M

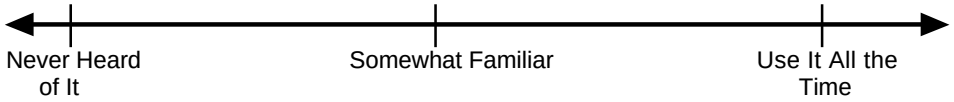
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Hypothesis a proposition or supposition developed to provide a basis for further investigation or research. M

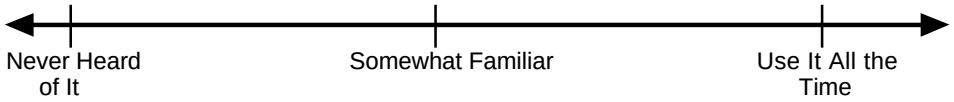
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Indirect measure the measurement of an object through the known measure of another object. M

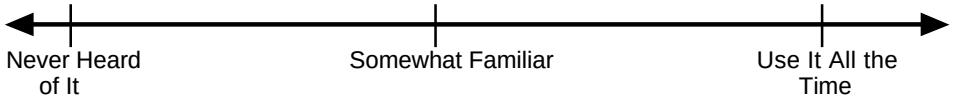
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Inequality a sentence that states one expression is greater than, greater than or equal to, less than, less than or equal to, or not equal to, another expression (e.g., $a \neq 5$ or $x < 7$). E

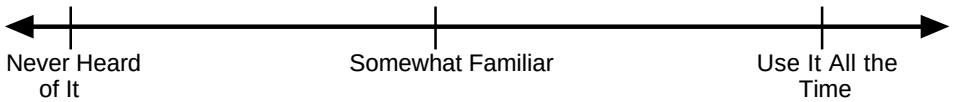
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Integers the numbers in the set {…, -4, -3, -2, -1, 0, 1, 2, 3, 4, …}. M

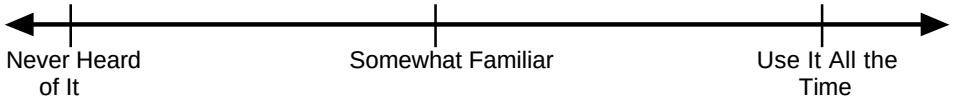
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Intercept the value of a variable when all other variables in the equation equal zero (0). On a graph, the values where a function crosses the axes. M

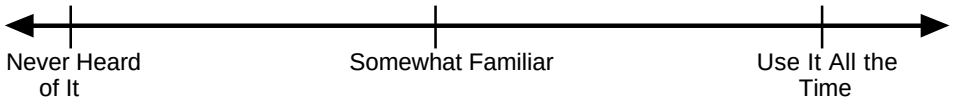
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Intersection the point at which two lines meet. E

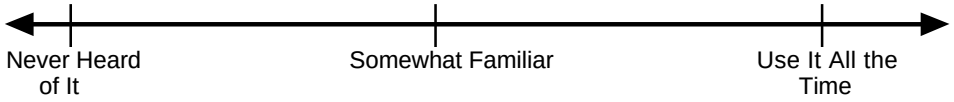
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Inverse operation an action that cancels a previously applied action. For example, subtraction is the inverse operation of addition. M

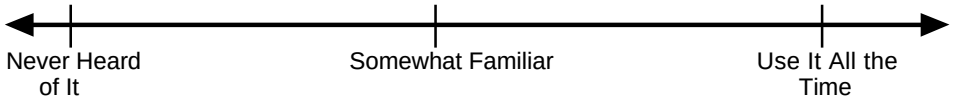
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Irrational number a real number that cannot be expressed as a ratio of two numbers (e.g., π). M

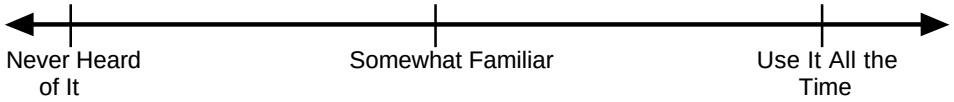
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Isosceles triangle a triangle with two congruent sides and two congruent angles. M

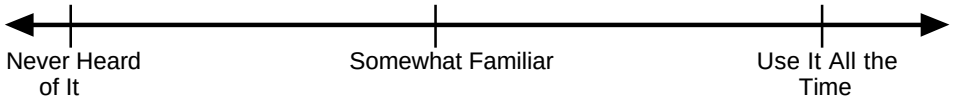
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Labels (for a graph) the titles given to a graph, the axes of a graph, or to the scales on the axes of a graph. E

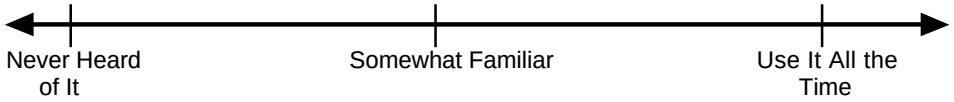
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Length a one-dimensional measure that is the measurable property of line segments. E

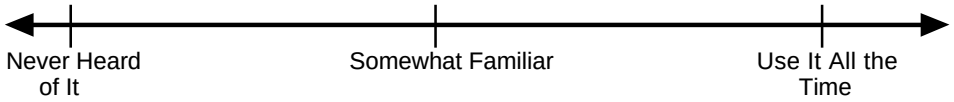
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Likelihood the chance that something is likely to happen. E
See ***Probability.***

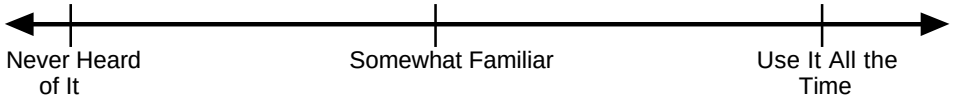
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Line a straight line that is endless in length. E

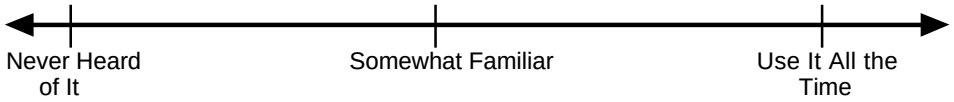
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Linear equation an algebraic equation in which the variable quantity or quantities are in the first power only and the graph is a straight line [e.g., 20 = 2(***w*** + 4) + 2***w*** and ***y*** = 3***x*** + 4]. M

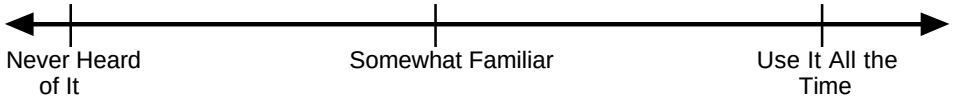
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Line graph a graph that displays data using connected line segments. E

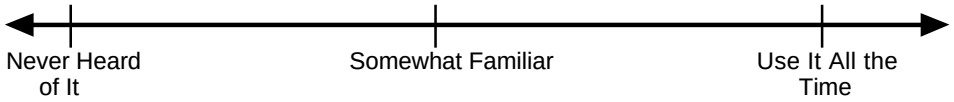
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Line segment a portion of a line that has a defined beginning and end (e.g., the line segment AB is between point A and point B). M

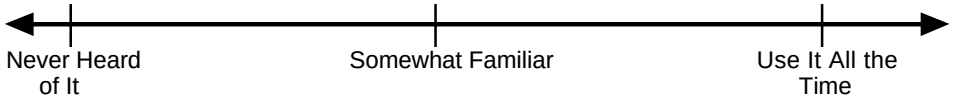
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Mean the arithmetic average of a set of numbers. E

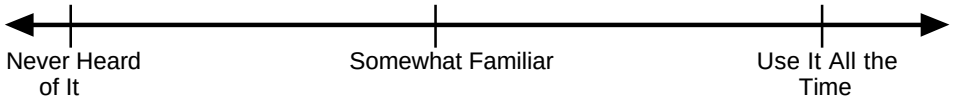
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Median the middle point of a set of ordered numbers where half of the numbers are above the median and half are below it. E

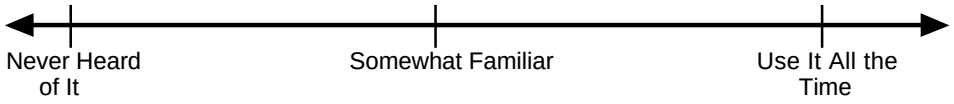
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Metric units the units of measure developed in Europe and used in most of the world. Like the decimal system, the metric system uses the base 10. Metric units for length are milligrams, grams, and kilograms. Metric units for volume are cubic millimeters, cubic centimeters, and cubic meters. Metric units for capacity are milliliters, centiliters, liters, and kiloliters. E

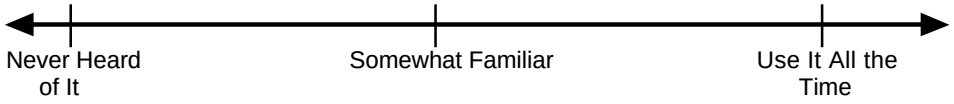
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Midpoint of a Line segment the point on a line segment that divides it into two equal parts. M

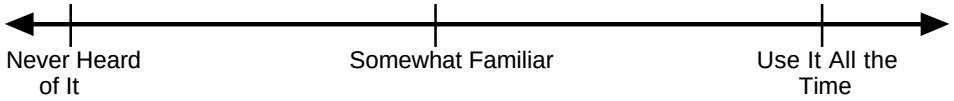
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Mode the score or data point found most often in a set of numbers. E

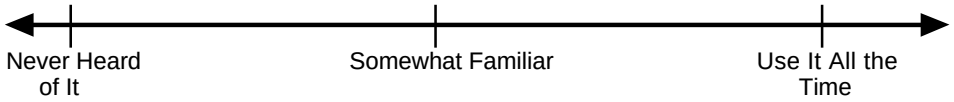
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Multiples the numbers that result from multiplying a given number by the set of whole numbers (e.g., the multiples of 15 are 0, 15, 30, 45, 60, 75, etc.). E

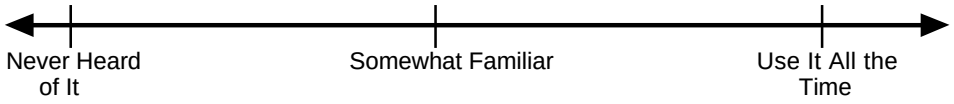
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Multiplicative identity the number one (1), that is, multiplying by 1 does not change a number's value (e.g., 5 x 1 = 5). M

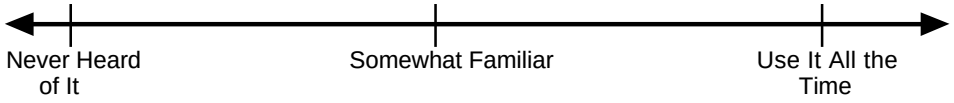
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Multiplicative inverse (reciprocal) any two numbers with a product of 1 (e.g., 4 and $\frac{1}{4}$). M

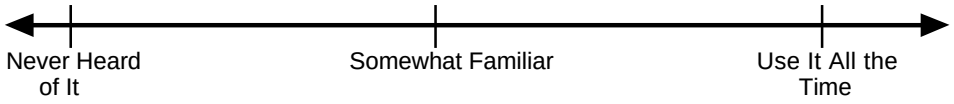
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Natural numbers (counting numbers) the numbers in the set {1, 2, 3, 4, 5, …}. M

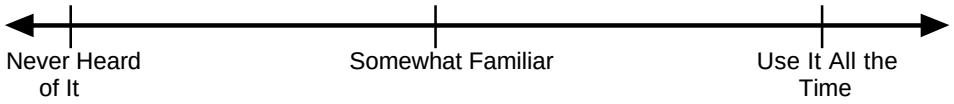
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Negative exponent used in scientific notation to designate a number smaller than one (1) (e.g., 3.45×10^{-2} equals 0.0345). M

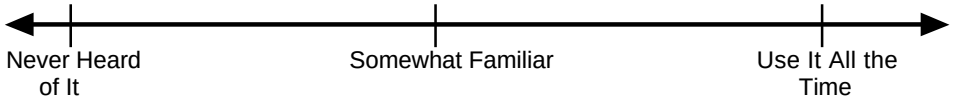
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Nonstandard units of measure objects such as blocks, paper clips, crayons, or pencils that can be used to obtain a measure. E

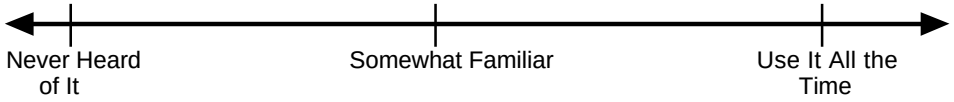
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Number line a line on which numbers can be written or visualized. E

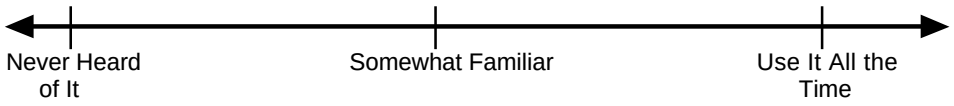
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Obtuse angle an angle with a measure of more than 90^o but less than 180^o. E

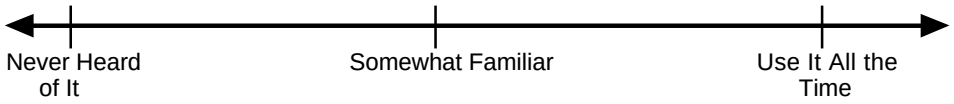
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Odds the ratio of one event occurring to it not occurring. M

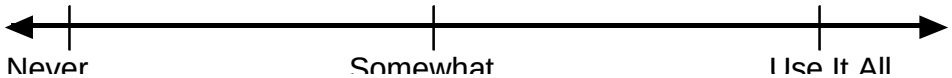
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Operation any mathematical process, such as addition, subtraction, multiplication, division, raising to a power, or finding the square root. E

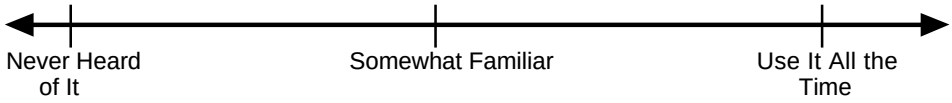
Mark on the line your knowledge of this



Explain in your own	
	Picture or

Operational shortcut a method having fewer arithmetic calculations. H

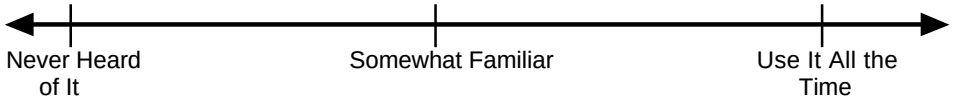
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Ordered pair the location of a single point on a rectangular coordinate system where the digits represent the position relative to the ***x***-axis and ***y***-axis [e.g., (***x***, ***y***) or (3, 4)]. E

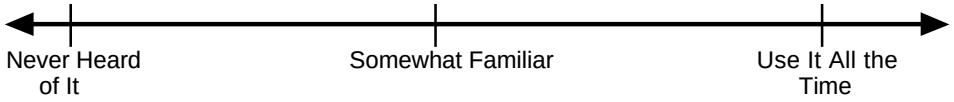
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Organized data data arranged in a display that is meaningful and that assists in the interpretation of the data. See ***Data displays***. E

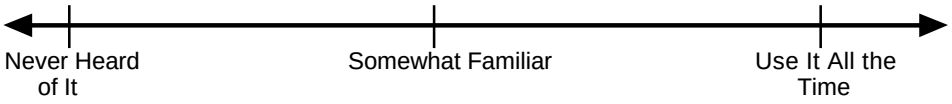
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Origin the point in the coordinate plane at which the horizontal axis (x-axis) intersects the vertical axis (y-axis). The point has coordinates (0,0). M

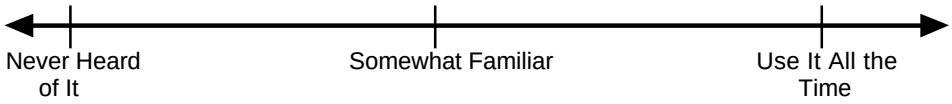
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Parallel lines two lines in the same plane that never meet. Also, lines with equal slopes. E

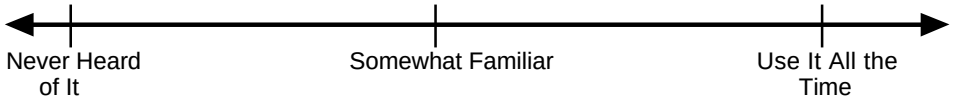
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Pattern (relationship) a predictable or prescribed sequence of numbers, objects, etc. Patterns and relationships may be described or presented using manipulatives, tables, graphics (pictures or drawings), or algebraic rules (functions). Also called a ***Relation***. E

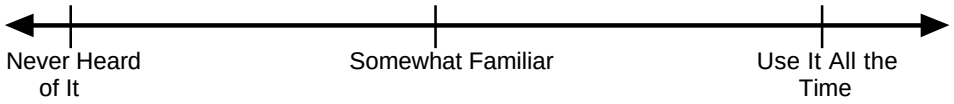
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Percent a special-case ratio in which the second term is always 100. The ratio is written as a whole number followed by a percent sign (e.g., 25% means the ratio of 25 to 100). E

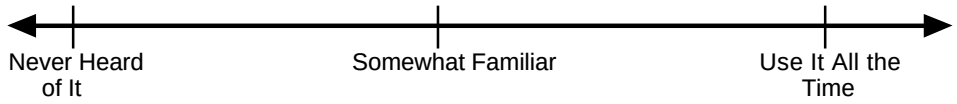
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Perimeter the distance around a figure. E

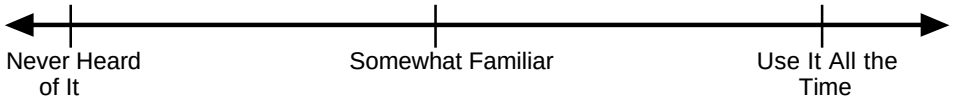
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Perpendicular a line describing two lines or two line segments that cross to form a right angle. E

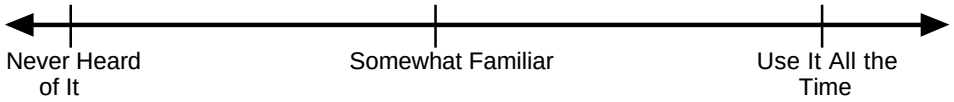
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Pi (π) the symbol designating the ratio of the circumference of a circle to its diameter, represented as either 3.14 or $\frac{22}{7}$). M

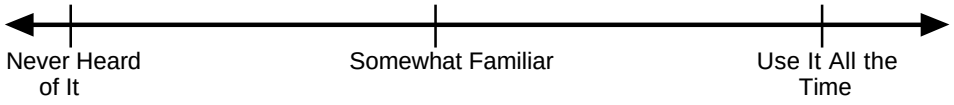
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Pictograph a data display. M

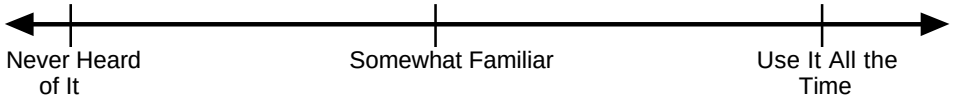
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Place value the position of a single digit in a whole number or decimal number containing one or more digits. E

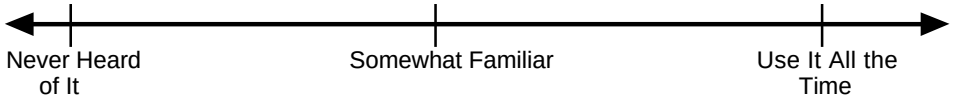
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Planar cross-section the intersection of a plane and a three-dimensional figure. H

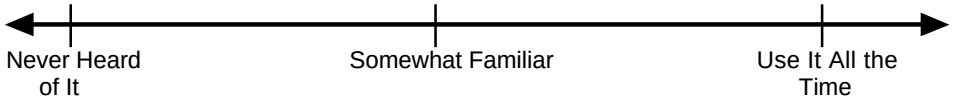
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Plane figure a two-dimensional figure that lies entirely within a single plane. E

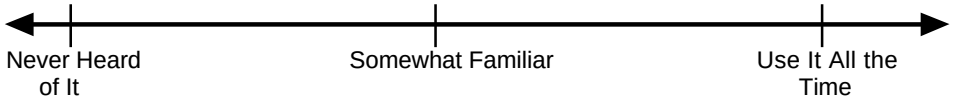
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Point a location in space that has no discernible length or width. E

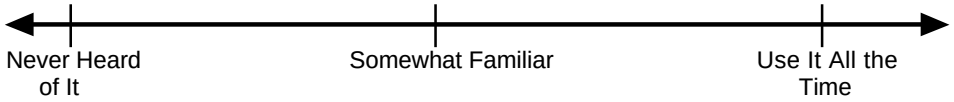
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Polygon a closed plane figure whose sides are straight lines that are connected end-point to end-point. E

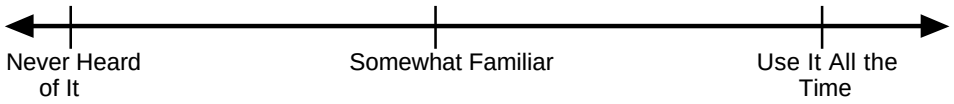
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Prime number any whole number with only two factors, 1 and itself (e.g., 2, 3, 5, 7, 11, etc.). E

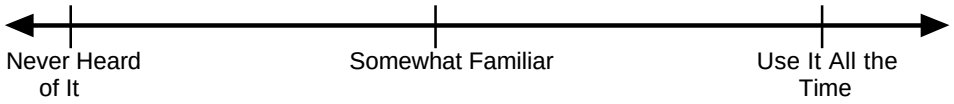
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Proof a set of steps that demonstrates the truth of a given statement. H
Each step can be justified with a reason, such as a given, a definition, an axiom, or a previously proven property.

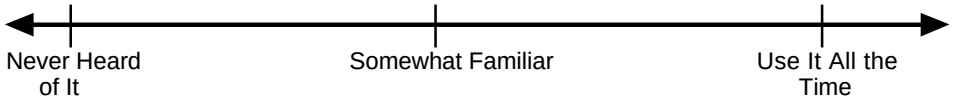
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Proportion a mathematical sentence stating that two ratios are equal. M

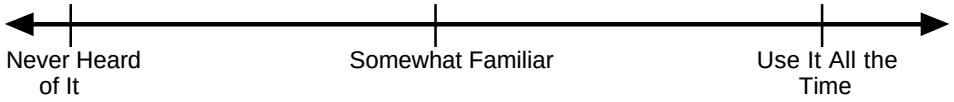
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Pyramid a three-dimensional figure whose base is a polygon and whose faces are triangles with a common vertex. M

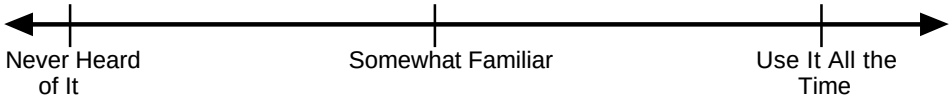
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Pythagorean Theorem the square of the hypotenuse (***c***) of a right triangle is equal to the sum of the squares of the legs (***a*** and ***b***), as shown in the equation $c^2 = a^2 + b^2$. M

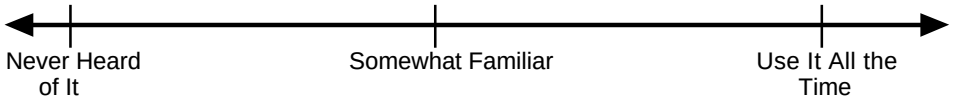
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Quadrant any of the four regions formed by the axes in a rectangular coordinate system. M

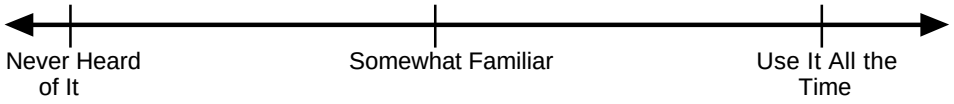
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Radical an expression that has a root (square root, cube root, etc.) (e.g., $\sqrt{25}$ is a radical). Any root can be specified by an index number, ***b***, in the form $\sqrt[b]{a}$ (e.g., $\sqrt[3]{8}$). A radical without an index number is understood to be a square root. M

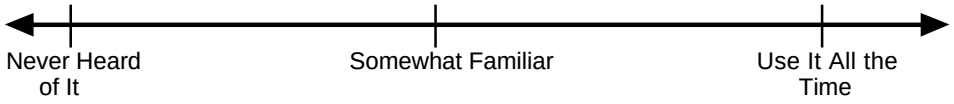
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Radical sign the symbol ($\sqrt{\ }$) used before a number to show that the number is a radicand. M

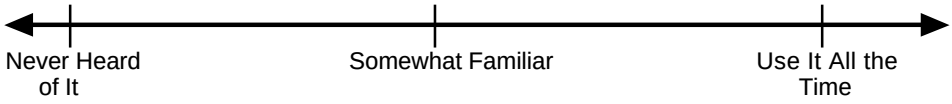
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Radicand a number appears with a radical sign (e.g., in $\sqrt{25}$, 25 is the radicand). M

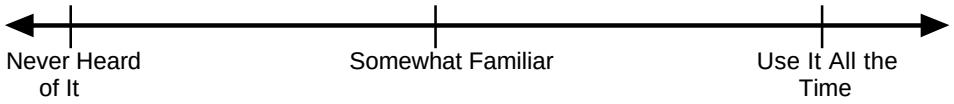
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Radius a line segment extending from the center of a circle or sphere to a point on the circle or sphere. M

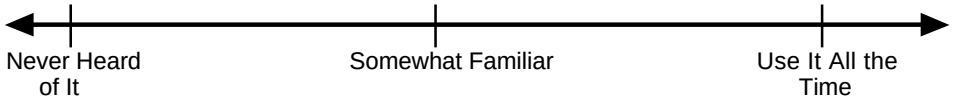
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Range the lowest value (L) in a set of numbers through the highest value (H) in the set. When the width of the range is expressed as a single number, the range is calculated as the difference between the highest and lowest values. More advanced presentations show the range calculated as (H – L + 1). The result of either calculation would be considered correct. E

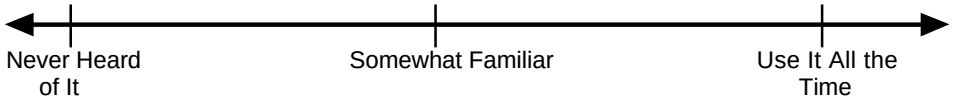
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Rate/distance calculations involving rates, distances, and time intervals, based on the distance, rate, time formula (***D*** = ***rt***). M

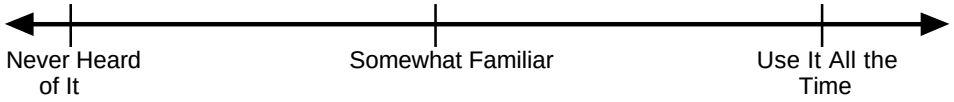
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Ratio the comparison of two quantities (e.g., the ratio of ***a*** and ***b*** is $\frac{a}{b}$, where ***b*** ≠ 0. E

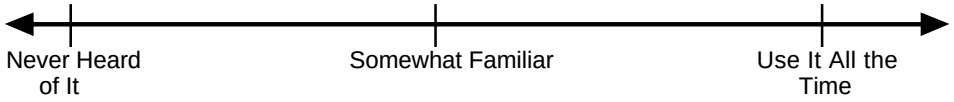
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Rational number a real number that can be expressed as a ratio of two integers. M

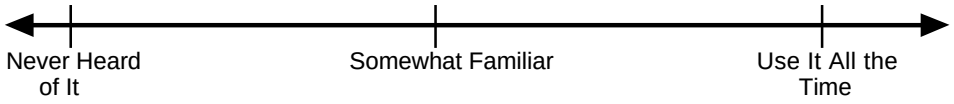
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Ray a portion of a line that begins at a point and goes on forever in one direction. E

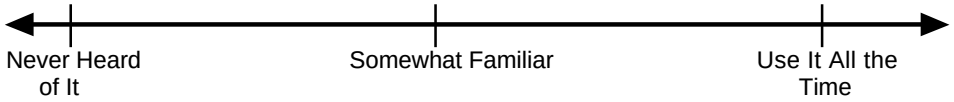
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Real number all rational and irrational numbers. M

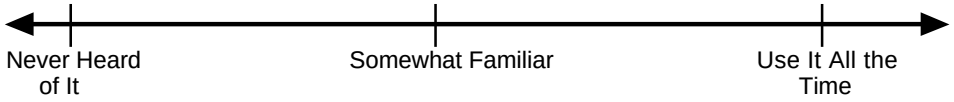
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Reciprocal see ***Multiplicative inverse***. H

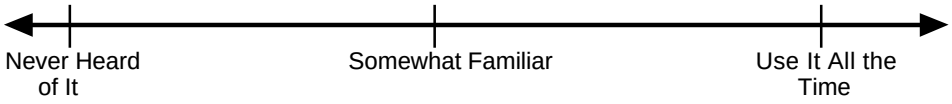
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Reflection see ***Flip***. E

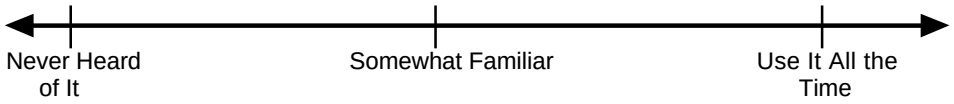
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Reflexive axiom of equality a number or expression is equal to itself (e.g., ***ab*** = ***ab***). H

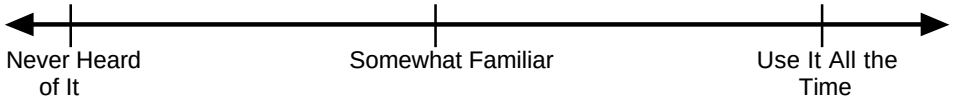
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Regular polygon a polygon that is both equilateral and equiangular. E

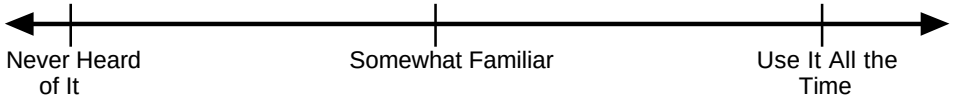
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Relation (relationship) see ***Pattern.*** E

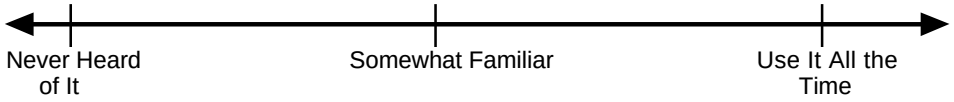
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Relative size the size of one number in comparison to the size of another number or numbers. M

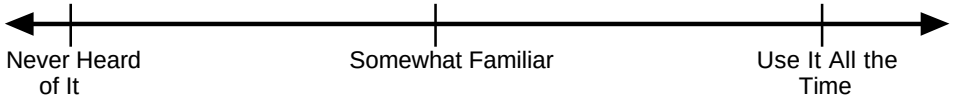
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Right angle an angle whose measure is exactly 90^{o}. E

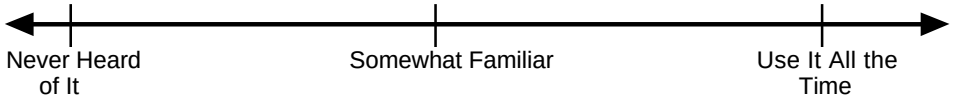
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Right circular cylinder a cylinder in which the bases are parallel circles perpendicular to the side of the cylinder. M

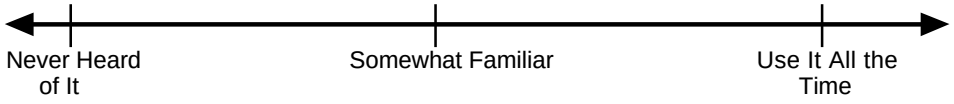
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Right prism or rectangular solid a three-dimensional figure (polyhedron) with congruent, polygonal bases and lateral faces that are all parallelograms. M

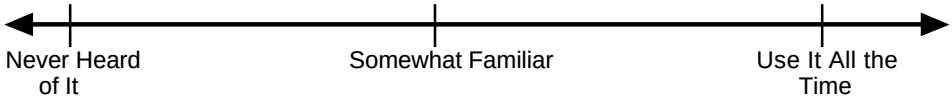
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Right triangle geometry finding the measures of missing sides or angles of a right triangle when given the measures of other sides or angles. H

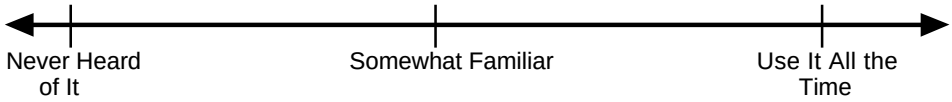
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Rise the change in ***y*** going from one point of ***x*** to another (the vertical change on the graph). M

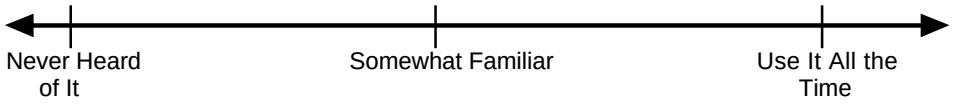
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Rotation a transformation of a figure by turning it about a center point or axis. The amount of rotation is usually expressed in the number of degrees (e.g., a 90^{o} rotation). Also called a ***Turn***. E

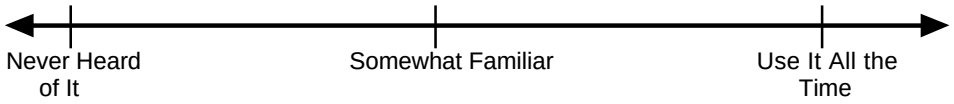
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Rule a mathematical expression that describes a pattern or relationship, or a written description of the pattern or relationship. E

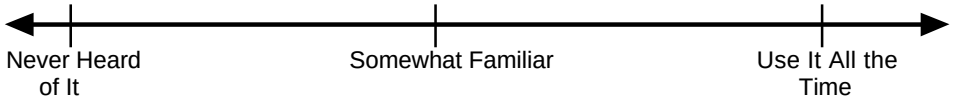
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Run the change in ***x*** going from one point of ***y*** to another (the horizontal change on the graph. M

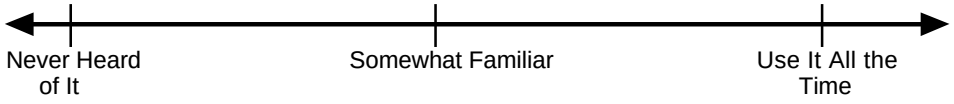
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Scale model a model or drawing based on a ratio of the dimensions for the model and the actual object it represents (e.g., a map). E

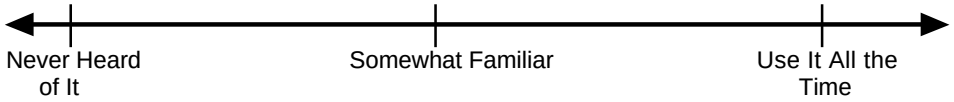
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Scales the numeric values assigned to the axes of a graph. E

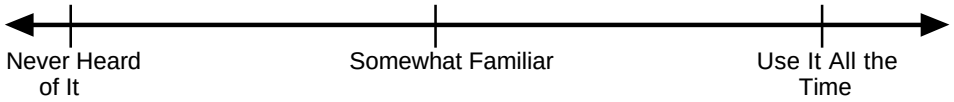
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Scatter Plot a graph of data points, usually from an experiment, that is used to observe the relationship between two values. M

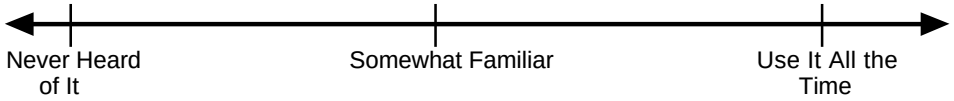
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Scientific notation a shorthand method of writing very large or very small numbers using exponents in which a number is expressed as the product of a power of 10 and a number that is greater than or equal to one (1) and less than 10 (e.g., $7.59 \times 10^5 = 759{,}000$). It is based on the idea that it is easier to read exponents than it is to count zeros. If a number is already a power of 10, it is simply written 10^{27} instead of 1×10^{27}. M

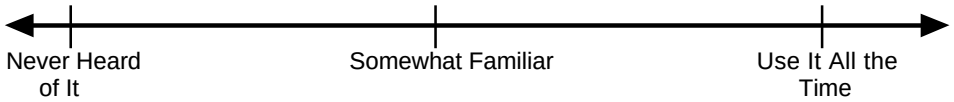
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Sequence an ordered list with either a constant difference (arithmetic) or a constant ratio (geometric). M

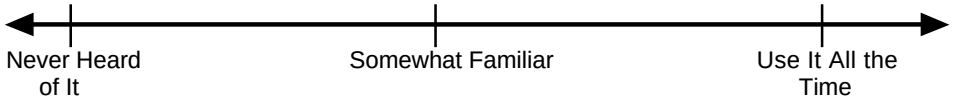
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Side the edge of a geometric figure (e.g., a triangle has three sides). E

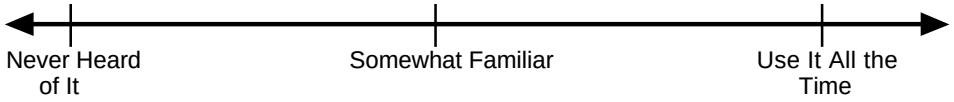
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Similar figures figures that are the same shape, have corresponding, congruent angles, and have corresponding sides that are proportional in length. E

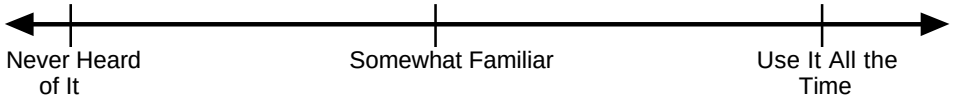
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Similarity a term describing figures that are the same shape but are not necessarily the same size or in the same position. E

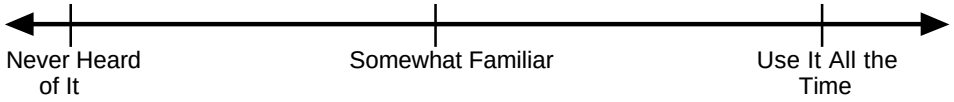
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Slide to move along in constant contact with the surface in a vertical, horizontal, or diagonal direction. Also called a ***Translation***. E

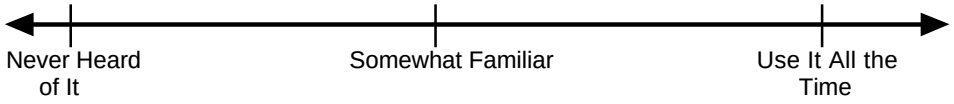
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Slope the constant, m, in the linear equation for the slope-intercept form $y = mx + b$. The ratio of change in the vertical axis (y-axis) to each unit change in the horizontal axis (x-axis) in the form $\frac{rise}{run}$ or $\frac{Dy}{Dx}$. M

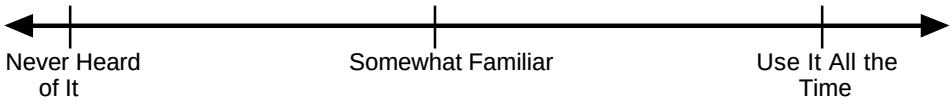
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Solid figures three-dimensional figures that completely enclose a portion of space (e.g., a rectangular solid, cube, sphere, right circular cylinder, right circular cone, and square pyramid). M

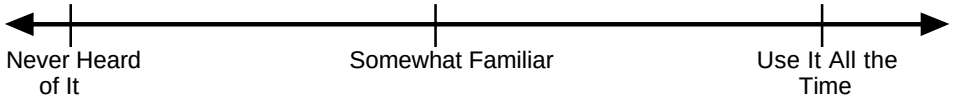
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Spatial relationships relationships of figures existing or happening in space. E

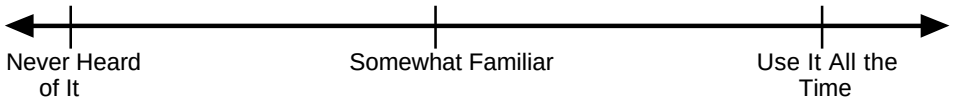
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Square root a positive real number that can be multiplied by itself to produce a given number (e.g., the square root of 144 is 12 or $\sqrt{144} = 12$). M

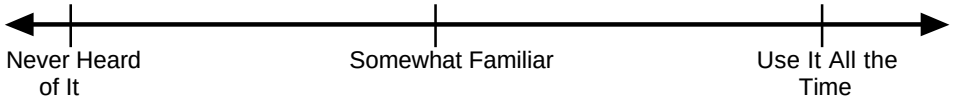
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Squiggle see ***Break***. M

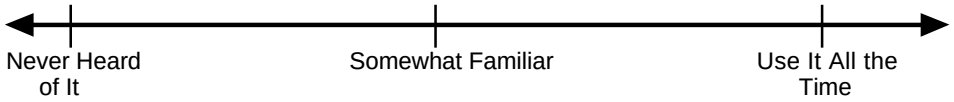
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Standard units of measure accepted measuring devices and units of the customary or metric system. E

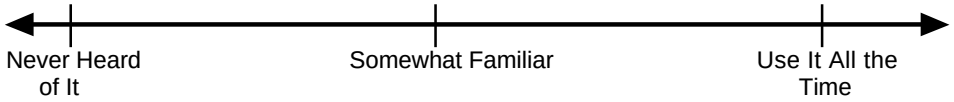
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Straight angle an angle whose measure is exactly 180^{o}. E

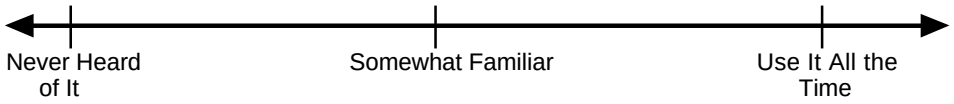
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Supplementary angles two angles, the sum of which is exactly 180^{o}. M

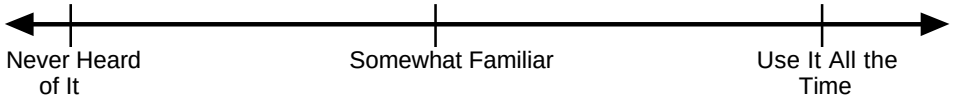
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Surface area of a geometric solid the sum of the areas of the faces of the figure that create the geometric solid. M

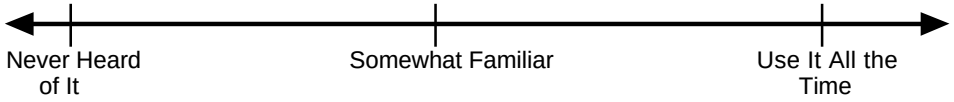
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Symbolic expression a symbol or set of symbols expressing a mathematical quantity or operation (e.g., 2***x*** is equal to two times ***x***). E

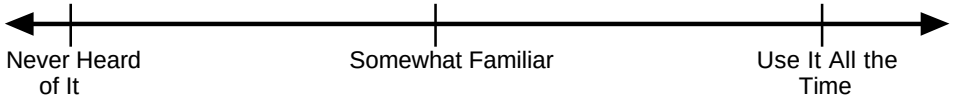
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Symbolic representations of numbers expressions represented by symbols (e.g., circles shaded to represent $\frac{1}{4}$ or variables used to represent quantities). M

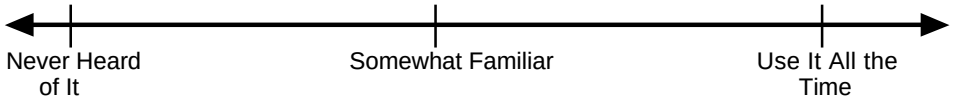
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Symmetry a term describing the result of a line drawn through the center of a figure such that the two halves are congruent. E

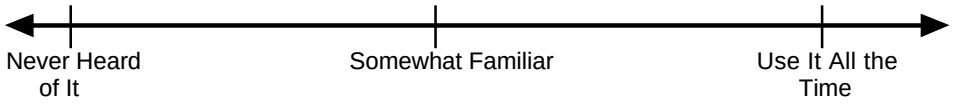
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

System of equations a group of two or more equations that share variables. The solution to a system of equations is an ordered number set that makes all of the equations true. H

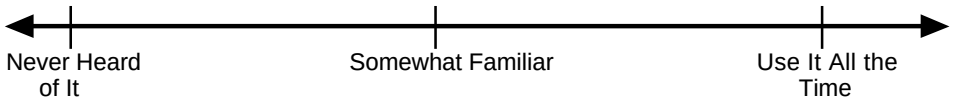
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Table a data display. M

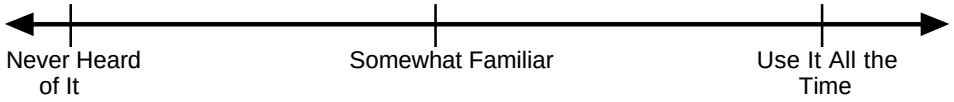
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Tessellation a covering of a plane with congruent copies of the same pattern with no holes and no overlaps, like floor tiles. M

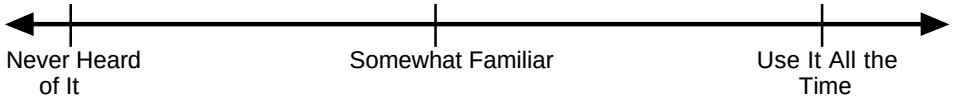
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Theoretical/expected probability the likelihood of an event happening based on theory rather than on experience and observation. E

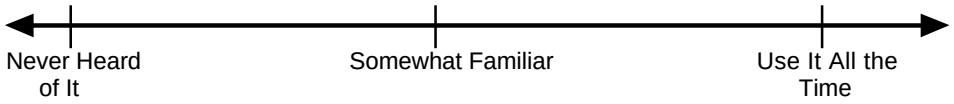
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Transformation an operation on a geometric figure by which another image is created. Common transformations Include flips, slides, and turns. E

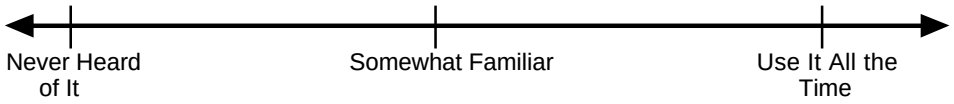
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Transitive property when the first element has a particular relationship to a second element that in turn has the same relationship to a third element, the first has this same relationship to the third element (e.g., if ***a*** = ***b*** and ***b*** = ***c***, then ***a*** = ***c***). Identity and equality are transitive relationships. H

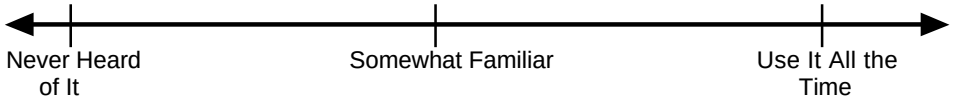
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Translation see ***Slide***. E

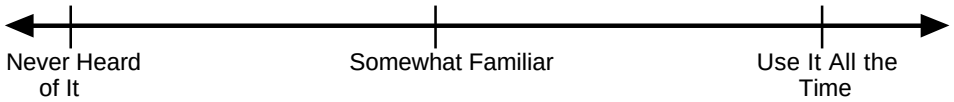
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Transversal a line that intersects two or more lines at different points. M

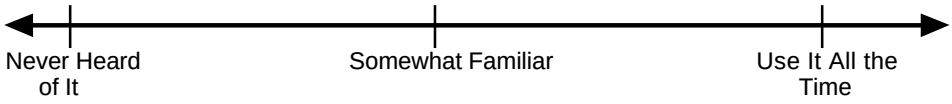
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Tree diagram a diagram in which all the possible outcomes of a given event are displayed. E

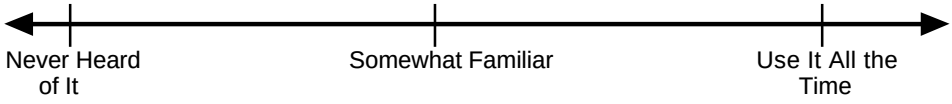
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Turn see ***Rotation***. E

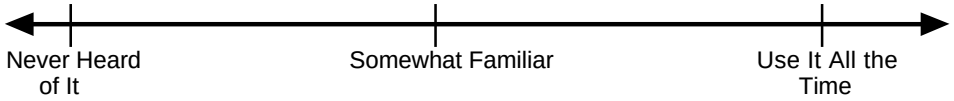
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Unorganized data data that are presented in a random manner. E

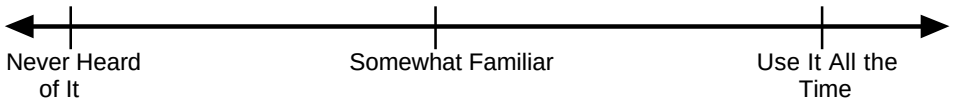
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Variable any symbol that could represent a number. E

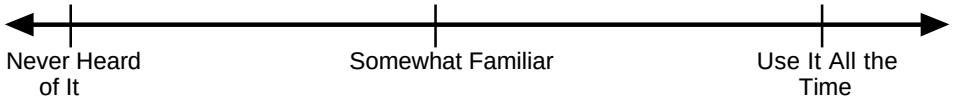
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Vertex the common endpoint from which two rays begin (e.g., the vertex of an angle) or the point where two lines intersect; the point on a triangle or pyramid opposite to and farthest from the base. E

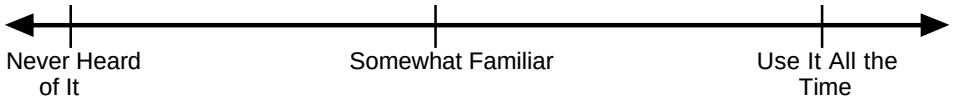
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Vertical angles the opposite angles formed when two lines intersect. M

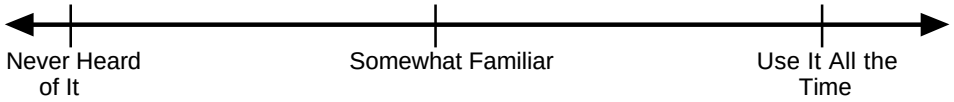
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Volume the amount of space occupied in three dimensions and expressed in cubic units. Both capacity and volume are used to measure empty spaces; however, capacity usually refers to fluids, whereas volume usually refers to solids. E

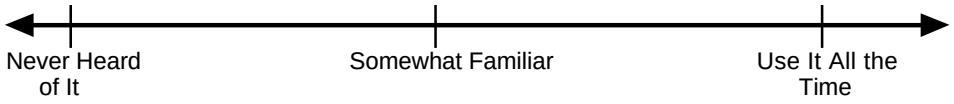
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Weight measures that represent the force that attracts an object to the center of Earth. E

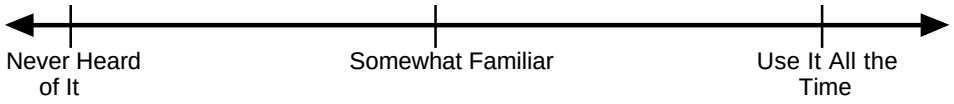
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Whole numbers the numbers in the set {0, 1, 2, 3, 4, …}. E

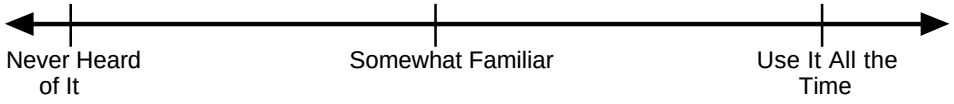
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

x*-intercept** the value of ***x on a graph when y is zero (0). M
The ***x***-axis is the horizontal number line on a rectangular coordinate system.

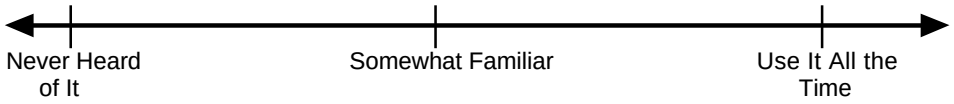
Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

y*-intercept** the value of ***y on a graph when x is zero (0). M
The ***y***-axis is the vertical number line on a rectangular coordinate system.

Mark on the line your knowledge of this word.



Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph