FCAT

Glossary

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

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.

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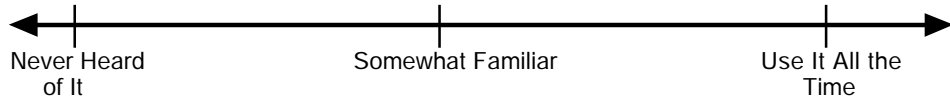
Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

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

Mark on the line your knowledge of this word.

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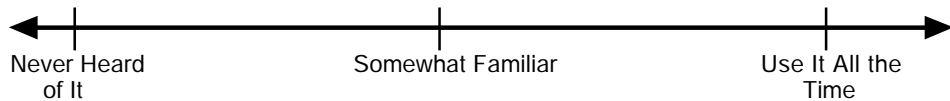
Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

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

Mark on the line your knowledge of this word.

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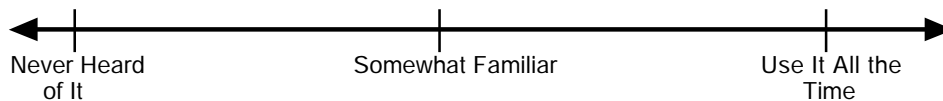
Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

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

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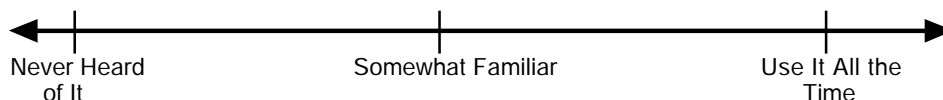
Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

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

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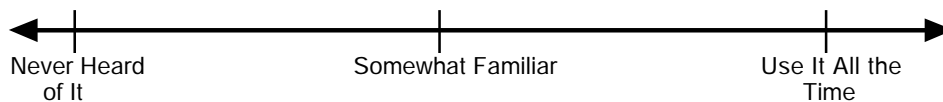
Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

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

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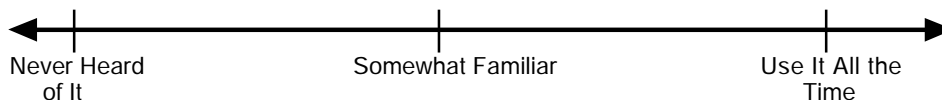
Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

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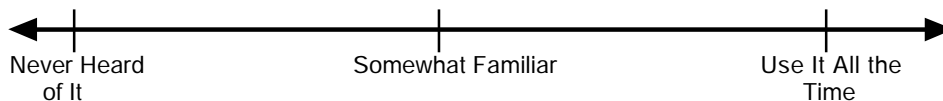addition and/or subtraction. For example:

5 + (12 – 2) ÷2 – 3 x 2

5 + 10 ÷ 2 – 3 x 2

5 + 5 – 6

10 – 6

4

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Never Heard   Somewhat Familiar   Use It All the
of It   Time

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

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

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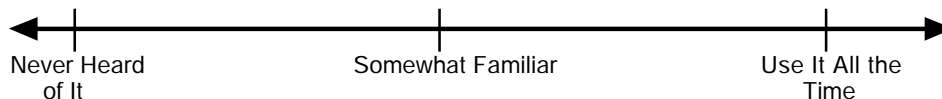
Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

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

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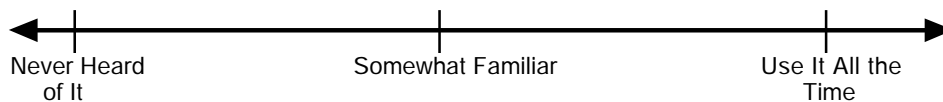Never Heard   Somewhat Familiar   Use It All the
of It   Time

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,   E
the vertex. Measures of angles are described using the degree system.

Mark on the line your knowledge of this word.

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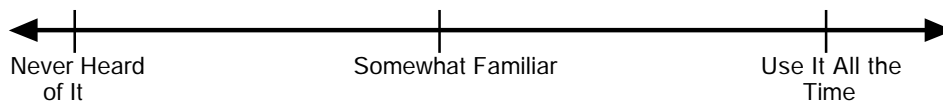
Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Area   the inside region of a two-dimensional figure measured in square   E
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).

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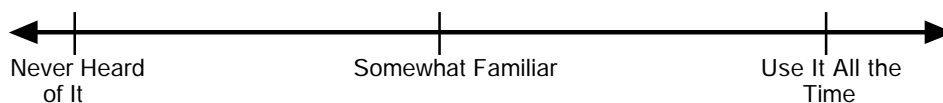Never Heard   Somewhat Familiar   Use It All the
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Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Associative   the way in which three or more numbers are grouped for   M
property   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)].

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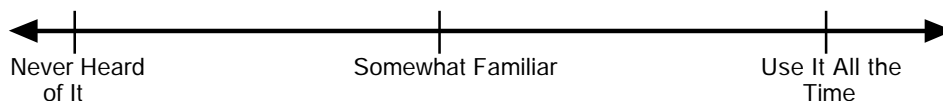
Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

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

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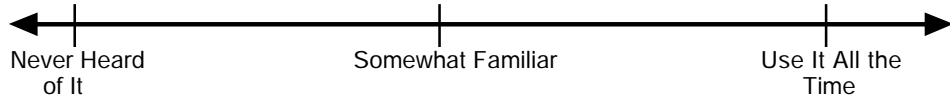Never Heard   Somewhat Familiar   Use It All the
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Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

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

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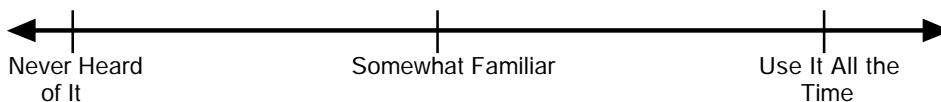←———————|———————————————|———————————————|———————→
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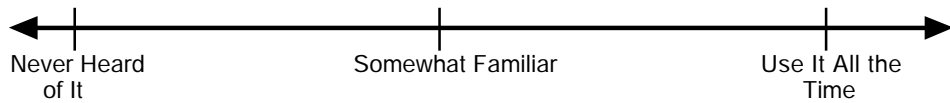
Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

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

Mark on the line your knowledge of this word.

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   of It   Time

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   M
indicating that the data being displayed do not include all of
the values that exist on the number line used. Also called a *Squiggle*.

Mark on the line your knowledge of this word.

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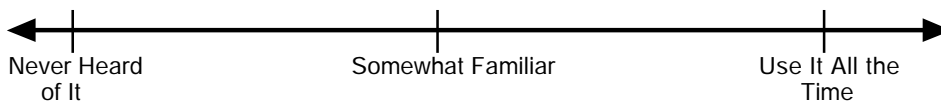
Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

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

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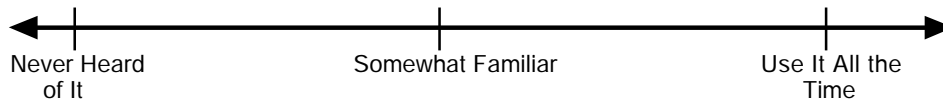of It   Time

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

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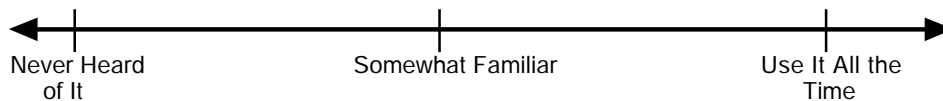
Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Chart a data display.   M

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

Circle graph a data display.   M

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

Circumference   the perimeter of a circle is called its circumference.   M
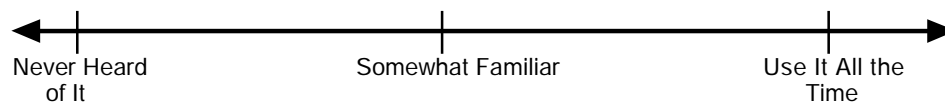
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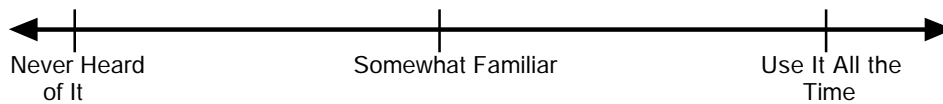
Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Closed figure   a two-dimensional figure whose beginning and ending   E
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).

Mark on the line your knowledge of this word.

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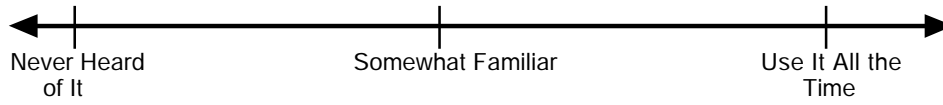   of It   Time

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

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

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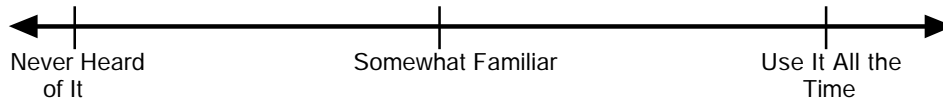Never Heard   Somewhat Familiar   Use It All the
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Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Complementary angles   two angles, the sum of which is exactly 90°.   M

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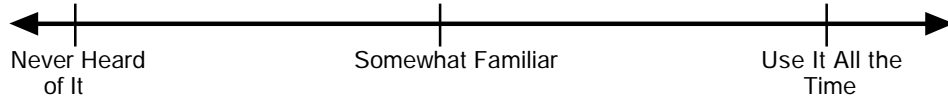
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of It   Time

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

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

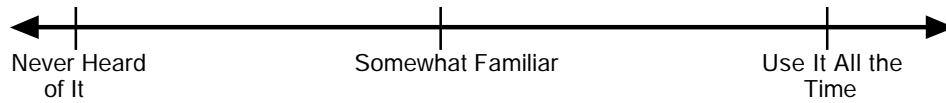Mark on the line your knowledge of this word.

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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

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Never Heard   Somewhat Familiar   Use It All the
of It   Time

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

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

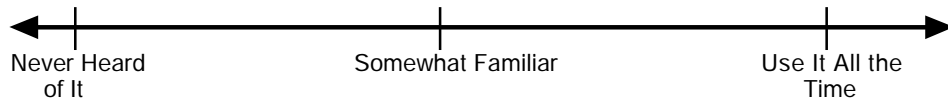Mark on the line your knowledge of this word.

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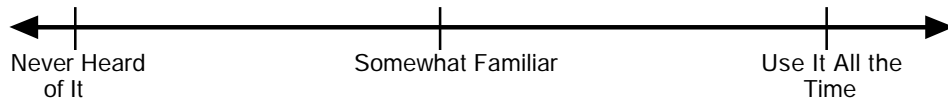
Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

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

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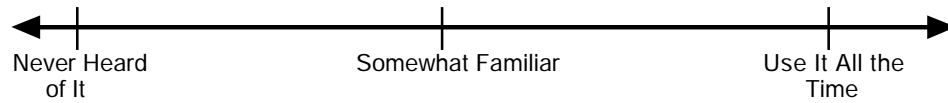of It   Time

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

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

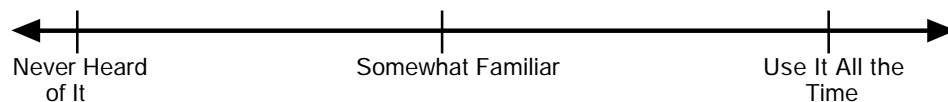Mark on the line your knowledge of this word.

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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
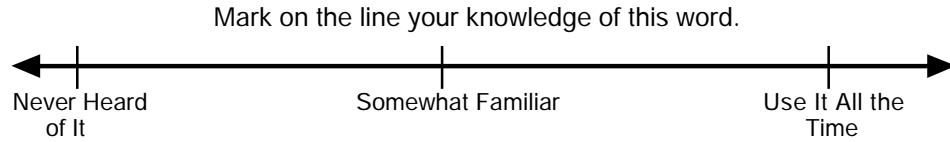*m* outcomes, then the first event followed by the second
event has *n* x *m* outcomes.

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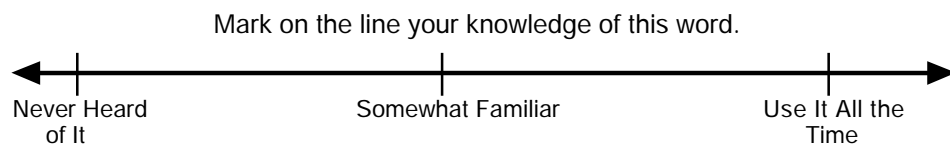of It   Time

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

Customary units   the units of measure developed and used in the   E
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.

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Never Heard   Somewhat Familiar   Use It All the
of It   Time

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

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

Mark on the line your knowledge of this word.

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Never Heard   Somewhat Familiar   Use It All the
of It   Time

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

Data displays/ different ways of displaying data in tables, charts, or graphs,   M
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.

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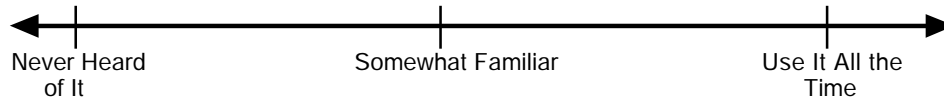
Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Decimal number   any number written with a decimal point in the number.   E
                      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).
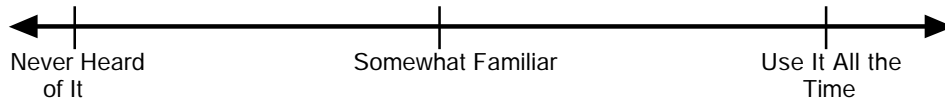
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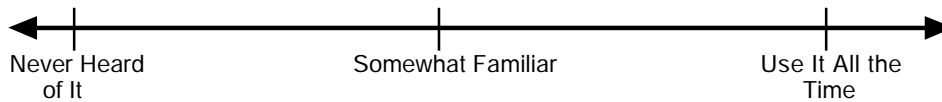
Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

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

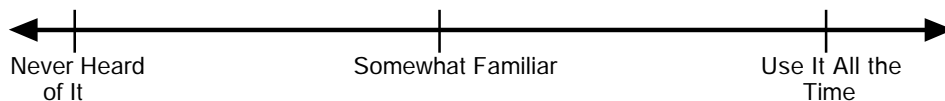Mark on the line your knowledge of this word.

Never Heard   Somewhat Familiar   Use It All the
of It   Time

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

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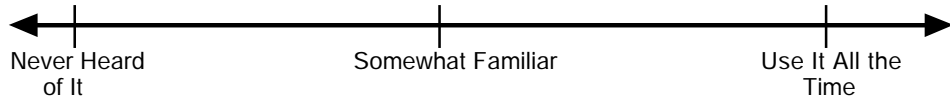clip or pencil.

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of It   Time

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.

Never Heard   Somewhat Familiar   Use It All the
of It   Time

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

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

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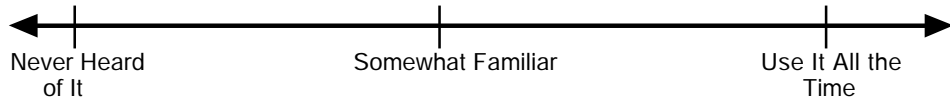
Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

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

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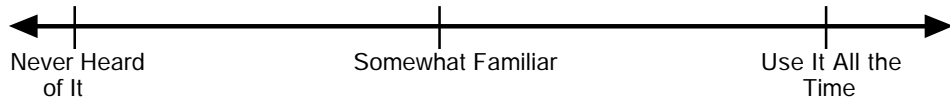
Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Empirical   the likelihood of an event happening that is based on   E
probability   experience and observation rather than on theory.
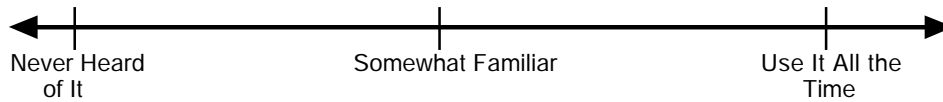
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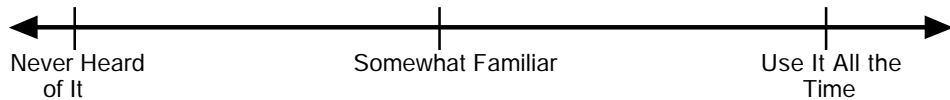
Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Enlargement   an increase in size in all dimensions by a uniform amount.   M
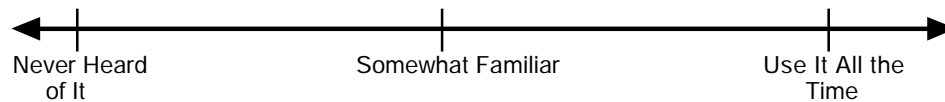
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Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

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

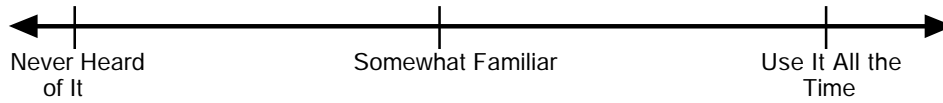Mark on the line your knowledge of this word.

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of It   Time

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

Equivalent expressions   expressions that have the same value but   M
are presented in a different format using the
properties of numbers. [e.g., $ax + bx = (a + b)x$].
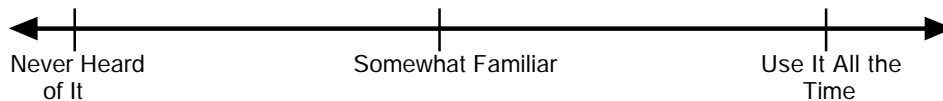
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Never Heard   Somewhat Familiar   Use It All the
of It   Time

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

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

Mark on the line your knowledge of this word.

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Never Heard   Somewhat Familiar   Use It All the
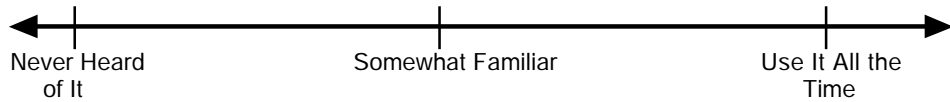of It   Time

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

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

Mark on the line your knowledge of this word.

Never Heard   Somewhat Familiar   Use It All the
of It   Time

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

Exponent   the number of times the base occurs as a factor. For   M
(exponential form) 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.
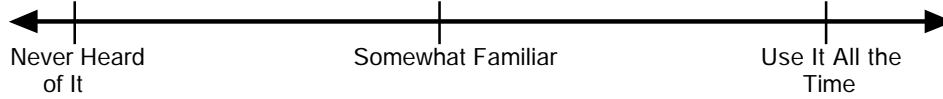
Mark on the line your knowledge of this word.

Never Heard   Somewhat Familiar   Use It All the
of It   Time
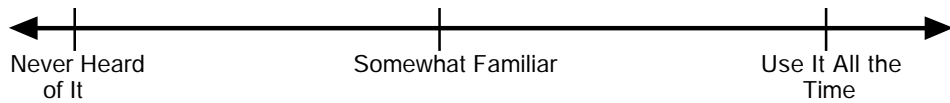
Explain in your own words	Example
Facts/Rules/Formulas	Picture or Graph

Expression   a collection of numbers, symbols, and/or operation signs   E
                 that stands for a number.
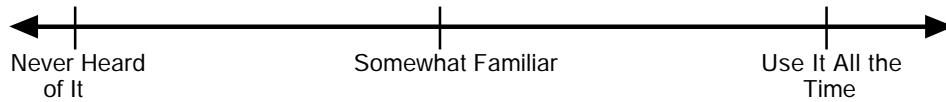
Mark on the line your knowledge of this word.

Never Heard   Somewhat Familiar   Use It All the
of It   Time

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

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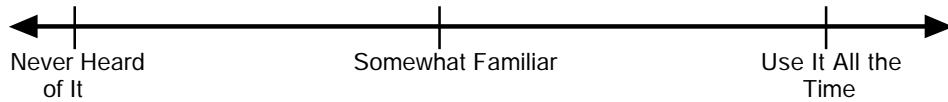   range.

Mark on the line your knowledge of this word.

Never Heard   Somewhat Familiar   Use It All the
of It   Time

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
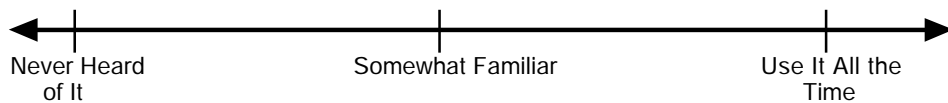
Mark on the line your knowledge of this word.

Never Heard   Somewhat Familiar   Use It All the
of It   Time

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
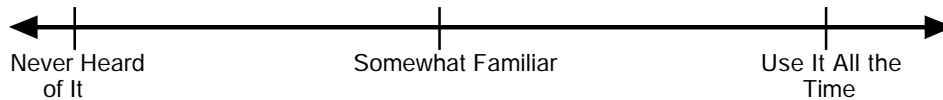
Mark on the line your knowledge of this word.

Never Heard   Somewhat Familiar   Use It All the
of It   Time

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

Finite graph   a graph having definable limits.   H
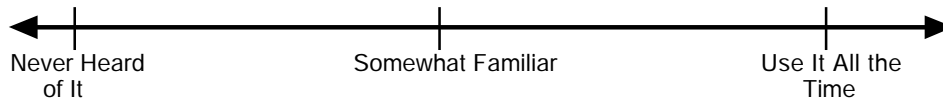
Mark on the line your knowledge of this word.

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Never Heard   Somewhat Familiar   Use It All the
  of It   Time

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*.
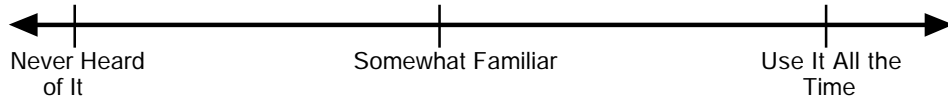
Mark on the line your knowledge of this word.

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Never Heard   Somewhat Familiar   Use It All the
  of It   Time

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   E
    in fractional form is $\frac{1}{2}$).

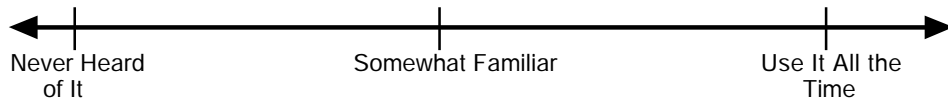Mark on the line your knowledge of this word.

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Never Heard   Somewhat Familiar   Use It All the
of It   Time

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   E
    value of y.
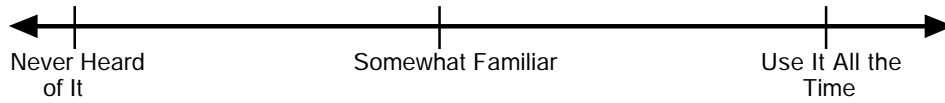
Mark on the line your knowledge of this word.

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Never Heard   Somewhat Familiar   Use It All the
of It   Time

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   M
the function, pattern, relationship, or sequence between
the two variables.

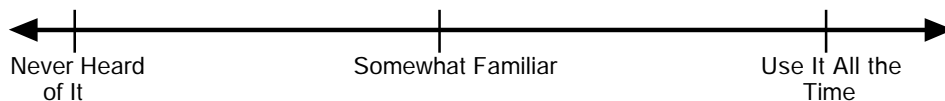Mark on the line your knowledge of this word.

Never Heard   Somewhat Familiar   Use It All the
of It   Time

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

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

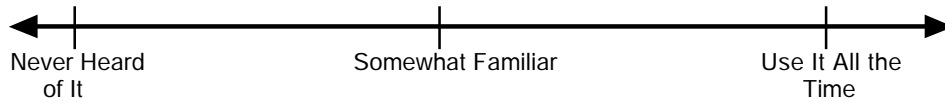Mark on the line your knowledge of this word.

Never Heard   Somewhat Familiar   Use It All the
of It   Time

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   E
to its base and forming a right angle with the base or basal point.
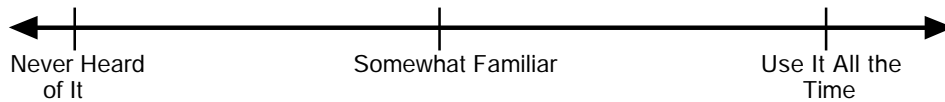
Mark on the line your knowledge of this word.

Never Heard   Somewhat Familiar   Use It All the
of It   Time

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

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

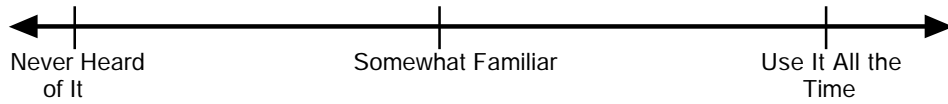Mark on the line your knowledge of this word.

Never Heard   Somewhat Familiar   Use It All the
of It   Time

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.

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of It   Time

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