Relation: A "mapping" or pairing of input values to output values.
Function: A relation where each input has exactly one output.
Domain: the set made up of all of the input values that have corresponding output values.
Range: the set made up of all of the corresponding output values.

6 ways to show a relation between input and output values.
(1) ordered pairs, (2) table, (3) graph, (4) equation, (5) mapping, and (6) "function notation"

Function Notation: When we say " $y$ is a function of $x$ " we mean We are "doing math" (performing mathematical operations) on the input value ' $x$ ' to determine the corresponding output value ' $y$ '. $y=f(x)$
$y$-intercept: the $x$-y pair where a graph crosses the $y$-axis, or, the $y$-value that corresponds an input value of zero, or the value ' $b$ ' in the equation $y=m x+b$.

Solution of a two-variable equation: all $x-y$ pairs that make the equation "true".
Delta a Greek letter (that looks like a triangle $\rightarrow \Delta$ ) used in engineering and math to denote "change."
Slope (of a line) is its steepness calculated as the change in ' $y$ ' and the change in ' $x$ ' between two points given by: $m=\frac{\Delta y}{\Delta x}$
Slope is the coefficient of ' $x$ ' when the equation is written in the form: $y=m x+b$
Linear relation has a constant slope, it's steepness does not change, or the calculation of $m=\frac{\Delta y}{\Delta x}$ between any two
points of the relation is always the same number.

