Unit 7/8 Vocabulary Name\_\_\_\_\_**KEY\_**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Due Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| Relation | A set or ordered pairs. |
| Domain (input) | The set of x-coordinates in a relation. |
| Range (output) | The set of y-coordinates in a relation. |
| Function | A relation in which each input is paired with exactly one output. |
| Vertical Line Test (VLT)(pencil test) | Used to test whether a graph is a function. |
| Function table (input/output table)(x/y chart, t-table) | A way to organize the domain, range and rule of a function. |
| Independent variable | The variable of a function with a value that is subject to choice. |
| Dependent variable | The variable of a function that depends on the value of the independent variable. |
| Linear relationship | A relation that has a straight line graph. |
| Constant rate of change | When the rate of change between any two points in a linear relationship is the same. |
| Slope | The rate of change between any two points on a line. Formula:\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Rise | The vertical change between any two points on a line. |
| Run | The horizontal change between any two points on a line. |
| \*Direct variation | A relationship between two variable quantities with a constant ratioFormula:\_\_\_y = kx\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| \*Constant of variation | A constant ratio in a direct variation |
| \*Constant of proportionality | The constant ratio in a proportional linear relationship |
| y- intercept | The point where a line crossed the y- axis. |
| Slope-intercept form | An equation written in the form y = mx + b where m is the slope and b is the y-intercept.Formula: \_\_y = mx + b\_\_\_\_\_\_ |
| Linear function | A function in which the graph of the solutions is a straight line. |
| Continuous data | Data whose graphs are represented by a solid line because there is no space between data values for a given domain. |
| Discrete data | Data whose graphs are represented by dots because there is space between possible data values. |
| Nonlinear function | A function whose rate of change is not constant. |
| Linear equation | An equation with a graph that is a straight line |
| Literal equation | An equation or formula that has more than one variable. |
| Standard form | An equation written in the form Ax + By = C where A, B and C are all integers and A is positive.Formula:\_\_\_\_\_Ax + By = C |

\*7th grade concepts