



Glossary

Cartesian Coordinate System a system for representing points on a plane in relation to a horizontal x -axis and a vertical y -axis whose point of intersection is labelled $(0,0)$. This point of intersection is referred to as the origin.

Continuous Data attached, uninterrupted values that are connected by a line when graphed. Continuous data is measured, not counted.

Data a collection of information

Dependent Variable a variable whose value is determined by another (independent) variable

Discrete Data distinct values that are not connected by a line when graphed. Discrete data is counted, not measured.

Domain the set of all possible input values (x -values) of a relation

Extrapolation predictions about data values above or below given data

Function for every unique input value, there is a single unique output value

Graph a visual depiction of the relationship between two variables

Independent Variable a variable whose value is not determined by another variable

Interpolation predictions about data values between given data

Interval Notation a symbolic way of representing a particular interval of values using specific brackets to denote inclusion or exclusion of the interval endpoints. Domain and range are often represented using interval notation.

Linear Relation a relation whose graph is a straight line

Range the set of all possible output values (y -values) of a relation

Rate of Change how one quantity changes relative to another quantity

Relation a set of ordered pairs that can be represented in many ways

Scale the range of values noted on each axis, where the length of each axis is divided into identically-sized intervals

Set a collection of distinct objects, where each object is referred to as an element of the set

Set-builder Notation a symbolic way of representing a set of values by describing the characteristics of that set. Domain and range are often represented using set-builder notation.

Slope the ratio of the vertical change to the horizontal change of a line or line segment

Vertical Line Test a visual way to determine if a relation is a function or not