

Name: _____
Date: Key
Period: _____

Algebra Chapter 1 Vocabulary Study Guide

- N 1. algebraic expression
- K 2. axes
- B 3. base
- A 4. coefficient
- Q 5. continuous function
- D 6. coordinate plane
- F 7. decreasing
- S 8. dependent variable
- H 9. discrete function
- G 10. domain
- M 11. element
- I 12. end behavior
- O 13. equation
- W 14. equivalent expressions
- E 15. evaluate
- P 16. exponent
- J 17. function
- T 18. function notation
- C 19. increasing
- U 20. independent variable
- V 21. intercepts
- R 22. like terms
- L 23. line of symmetry

- A. Is the number that is multiplied by a variable for example in $5x$, it is the 5
- B. Is the number that is used as a factor, for example in 3^2 it is the 3
- C. When the graph of a function goes up as we move left to right across the graph it is _____
- D. The _____ is formed by the intersection of two perpendicular number lines called axes
- E. To _____ an expression means to find its numerical value (to find the answer)
- F. When the graph of a function goes down as we move left to right across the graph it is _____
- G. The set of all x-coordinates of a relation is called the _____
- H. A _____ is a function whose graph consists of points that are not connected
- I. The _____ describes the values of the function at the positive and negative extremes in the domain
- J. A special type of relation where each member of the domain is paired with exactly one and only one range value (for every x-value there is one and only one y-value)
- K. The two number lines that intersect to form the coordinate plane are called _____.
- L. The line that divides a graph in half (creates a mirror image) is the _____
- M. Each object or number in a set is called an _____
- N. _____ is an expression that contains at least one variable and one operation.
- O. _____ is a mathematical sentence that contains an equal sign.
- P. Tells how many times the base is used as a factor for example in 3^2 it is the 2
- Q. A _____ is a function whose graph is a connected lines and/or a smooth curves
- R. Are terms that contain the same variables raised to the same powers
- S. The output $f(x)$ of a function is called the _____ because it depends on the input value of the function.
- T. When the set of ordered pairs described by an equation satisfies the definition of a function, the equation can be written in _____, which replaces the y with $f(x)$.
- U. The input variable, the x, is called the _____
- V. The points where a graph touches or crosses an axis are the _____
- W. Two expressions that represent the same number/value are _____

- B 24. mapping diagram
- D 25. multiplicative inverse
- E 26. nonlinear function
- L 27. order of operations
- S 28. ordered pair
- Q 29. origin
- M 30. power
- V 31. range
- H 32. reciprocals
- E 33. relation
- J 34. relative maximum
- P 35. relative minimum
- A 36. set
- I 37. simplify
- W 38. solution
- U 39. term
- G 40. variable
- F 41. x-axis
- R 42. x-coordinate
- K 43. x-intercept
- N 44. y-axis
- T 45. y-coordinate
- O 46. y-intercept

- ~~A.~~ A set of ordered pairs is called a _____
- ~~B.~~ A _____ is a diagram that uses ovals and arrows to illustrate how each element of the domain is pair with an element from the range
- ~~C.~~ A _____ is a collection of objects or numbers that is often shown using braces { }
- ~~D.~~ A number and its reciprocal are called _____. Their product is 1.
- ~~E.~~ A _____ is a function whose graph is not a straight line
- ~~F.~~ The horizontal number line is called the _____
- ~~G.~~ Is a letter or symbol used to represent a value that can change
- ~~H.~~ Two numbers are _____ if their product is 1. For example $\frac{2}{3}$ and $\frac{3}{2}$
- ~~I.~~ To _____ an expression means to perform all possible operations (do all the math you can do).
- ~~J.~~ The _____ is the extrema point on a graph that is the highest of all the points nearby
- ~~K.~~ The point where a graph touches or crosses the x-axis
- ~~L.~~ Tells you which operation to perform first often called PEMDAS
- ~~M.~~ Is an expression written with an exponent and a base or the value of such an expression for example: 3^2
- ~~N.~~ The vertical number line is called the _____
- ~~O.~~ The point where the graph touches or crosses the y-axis
- ~~P.~~ The _____ is the extrema point on a graph that is the lowest of all the points nearby
- ~~Q.~~ The point of intersection of the axes is called the _____ and represents 0 on each number line. $(0, 0)$
- ~~R.~~ The 1st number in an ordered pair is the _____
- ~~S.~~ Points on the coordinate plane are described using _____ and is written as (x, y)
- ~~T.~~ The 2nd number in an ordered pair is the _____
- ~~U.~~ A _____ is one part of an expression, it may be a number, variable, or the product/quotient of numbers and variables
- ~~V.~~ The set of all y-coordinates of a relation is called the _____
- ~~W.~~ Any value of the variable that make the equation true (the answer) is the _____