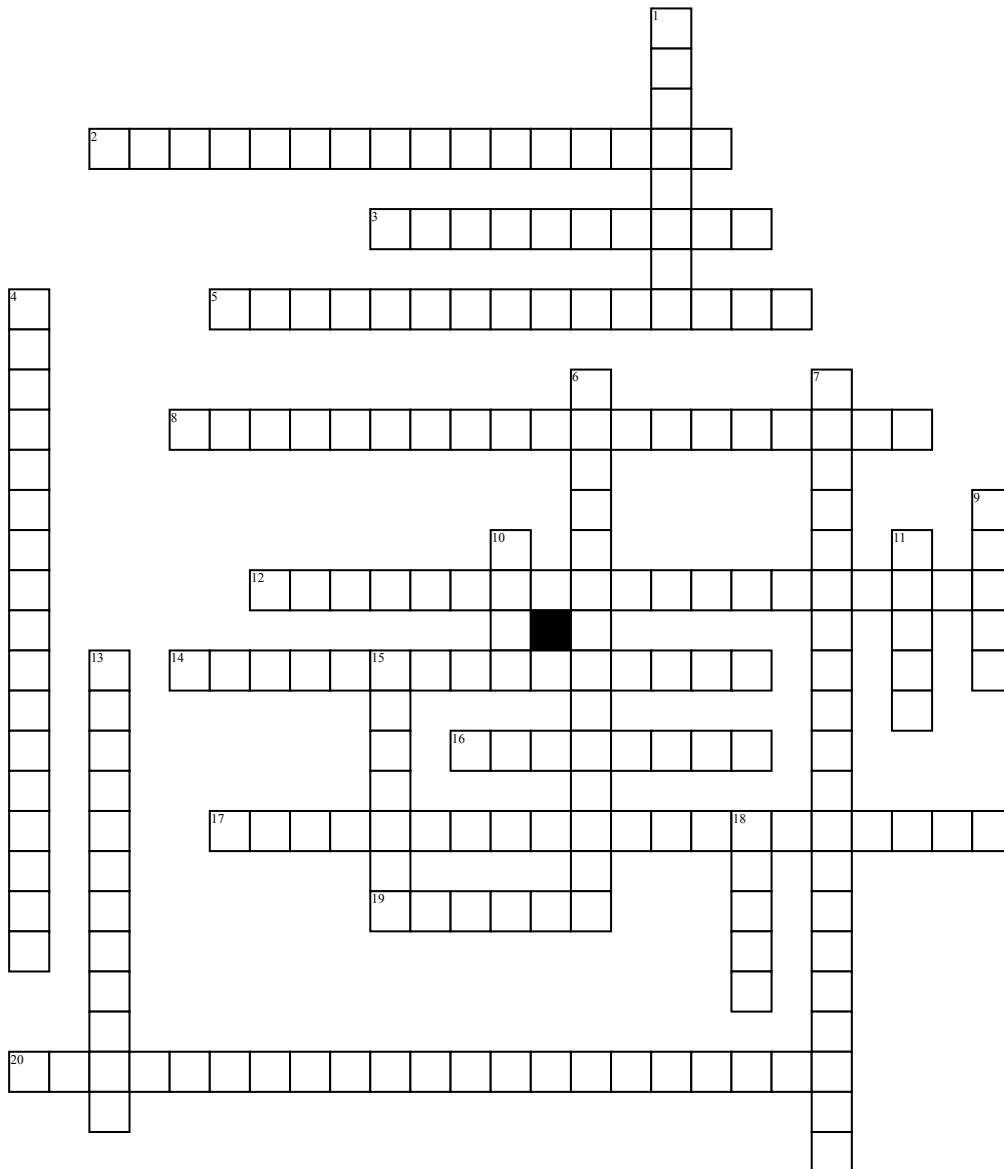


# Algebra 1 Crossword Puzzle



**Across**

- 2. mathematical relationship between two variables which can be expressed by an equation in which the product of two variables is equal to a constant.
- 3. The equation of any straight line, called a linear equation, can be written as:  $y = mx + b$ , where  $m$  is the slope of the line and  $b$  is what ?
- 5. mathematical relationship between two variables that can be expressed by an equation in which one variable is equal to a constant times the other
- 8. a graph is equivalent to shifting the base graph up or down in the direction of the y-axis
- 12. numbers that can be multiplied to give the original number
- 14. A whole number that can be divided exactly by numbers other than 1 or itself.

- 16. a special relationship where each input has a single output
  - 17. an algebra property which is used to multiply a single term and two or more terms inside a set of parentheses
  - 19. the set of all possible x-values which will make the function "work", and will output real y-values.
  - 20. a transformation which results in a graph that is equivalent to shifting the base graph left or right in the direction of the x-axis.
- Down**
- 1. the number of times a number is multiplied by itself
  - 4. numbers that are close in value to the actual numbers, and which make it easy to perform mental arithmetic.
  - 6. the simplest function of a family of functions.

- 7. If one variable is always the product of the other variable and a constant
- 9. a number multiplied by itself three times
- 10. the number of different digits or combination of digits and letters that a system of counting uses to represent numbers.
- 11. a number says how many times to use the number in a multiplication
- 13. The numbers greater than 1 that have only 2 factors; 1 and the number itself
- 15. the result of multiplying a number by itself.
- 18. The difference between the lowest and highest values.