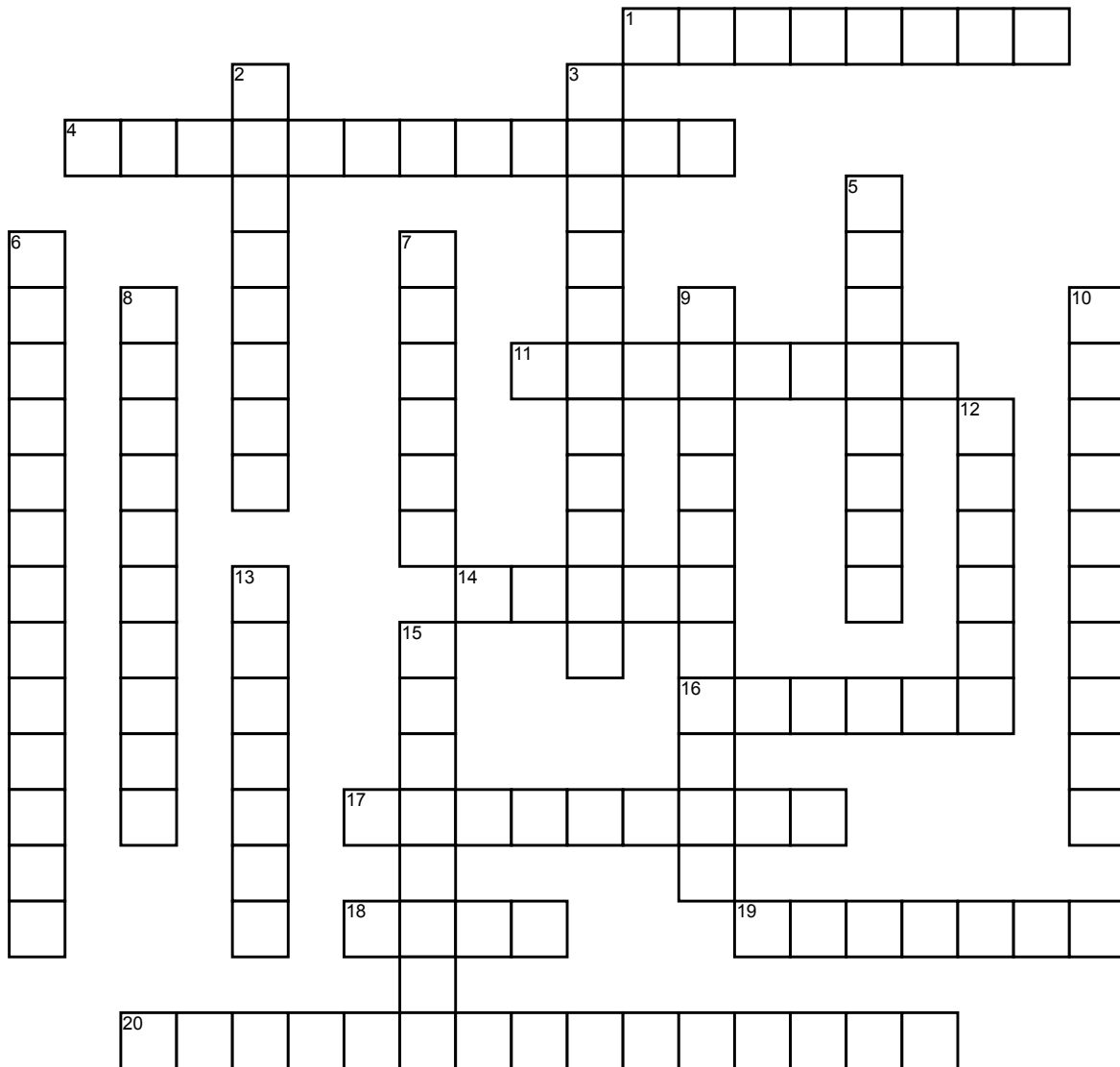


# Algebra 2 Cross Word Puzzle !



**Across**

- 1. says how many times to use the number in a multiplication In this example:  $82 = 8 \times 8 = 64$  or  $x^2 = x \times x$ .
- 4. a quadratic equation written in the form:  $y = ax^2 + bx + c$ , where  $a \neq 0$
- 11. a polynomial with two terms  
Examples:  $(x - 2)$  or  $(3x + 5)$
- 14. the set of values of the dependent variable for which a function is defined
- 16. to raise a number or expression to the 2nd power
- 17. a line that a curved graph gets closer to without every touching
- 18. in a logarithm, the base is the number that is raised to a power If  $nx = a$ , the logarithm of  $a$ ,  $n$  is the base.
- 19. a root of a quantity, e Example:  $\sqrt{x}$

20. a relationship in which the ratio between two variables is constant If  $k = y/x$  or  $y = kx$ , where  $k$  is a non-zero constant, then  $y$  varies directly with  $x$ .

**Down**

- 2. an unlimited number
- 3. the number multiplied times a product of variables or powers of variables in a term
- 5. a mathematical sentence that equates two expressions; an equation contains an equal sign, =
- 6. the distance from the number to zero on a number line Example:  $|3| = 3$  or  $|-3| = 3$
- 7. the set of input values of a function or relation
- 8. when there isn't any value that will make the equation true

- 9. a transformation that pushes the points of a graph vertically toward the x-axis
- 10. a mathematical sentence that shows a relationship among real numbers and variables; an expression does not contain a symbol implying equality or inequality
- 12. the highest exponent in an equation
- 13. get something by itself
- 15. a term or expression with no variables; a value that does not change