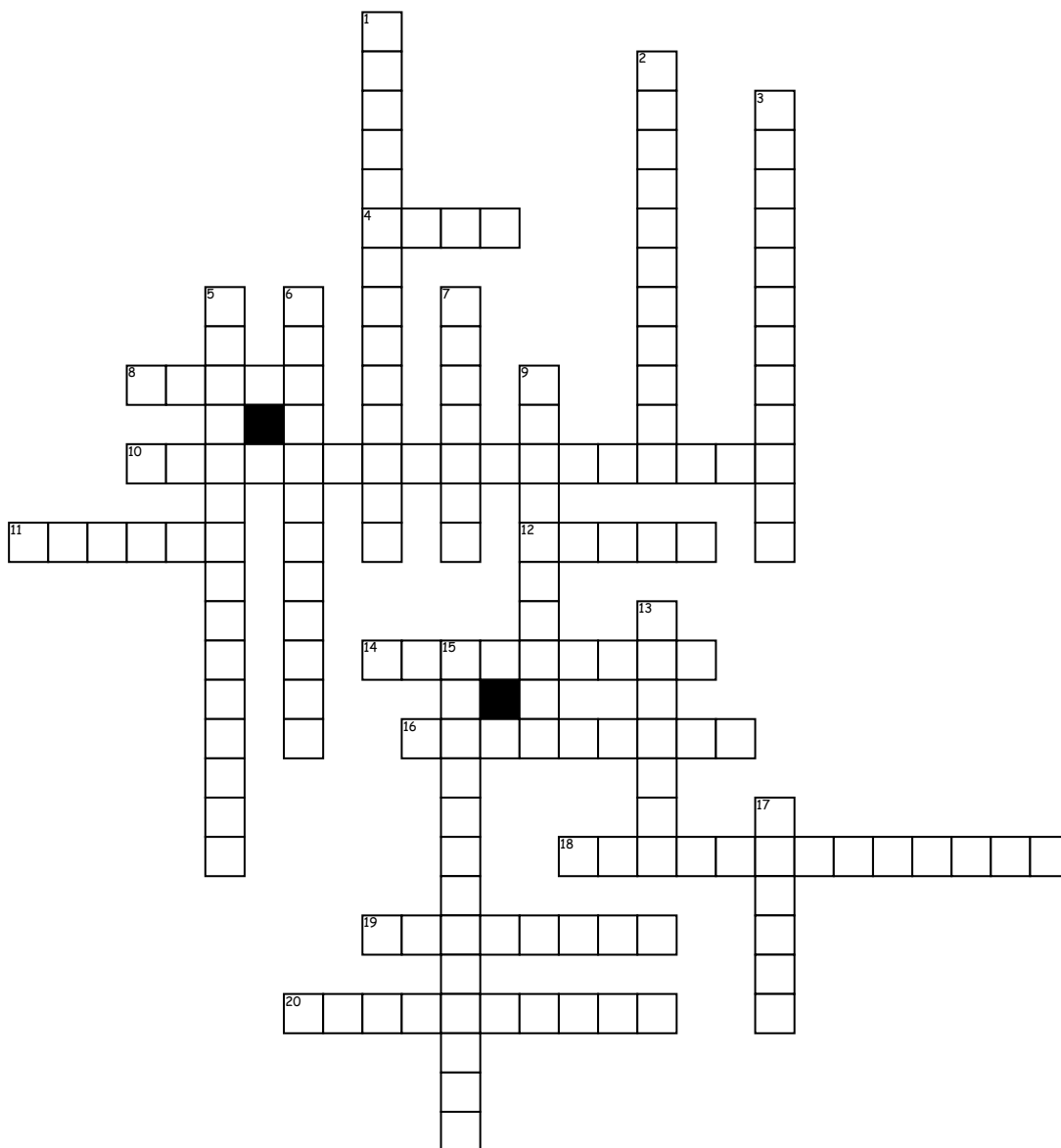


# Quadratics



## Across

4. (First - Multiply the first term in each set of parentheses (Outer - Multiply the outer term in each set of parentheses (Inner - Multiply the inner term in each set of parentheses (Last - Multiply the last term in each set of parentheses maximum
8. also sometimes called a roots
10. an equation in which the highest power of an unknown quantity is a square
11. used to show solutions to a quadratic equation (NOT A GRAPH)
12. the intersection between the graph of the quadratic function with the x-axis
14. a sum of three terms

16. the process of finding the factors

18. a number that can be expressed in the form  $a + bi$ , where  $a$  and  $b$  are real numbers, and  $i$  is the imaginary unit
19. a curve formed by an object thrown in the air and falling
20. a pair of things joined together

## Down

1. two sides of a graph look like mirror images of each
2. a point on the graph where  $y$  is zero
3. a numerical or constant quantity placed before and multiplying the variable in an algebraic expression

5. when the discriminant is less than 0, but there are two complex imaginary solutions
6.  $b^2 - 4ac$
7. defined as any expression containing a  $\sqrt{\quad}$  symbol
9. a number that produces a specified quantity when multiplied by itself
13. when the y-coordinate of the vertex of a parabola opens down
15. commonly referred to as "i"
17. the peak in the curve as, the peak will be pointing either downwards or upward