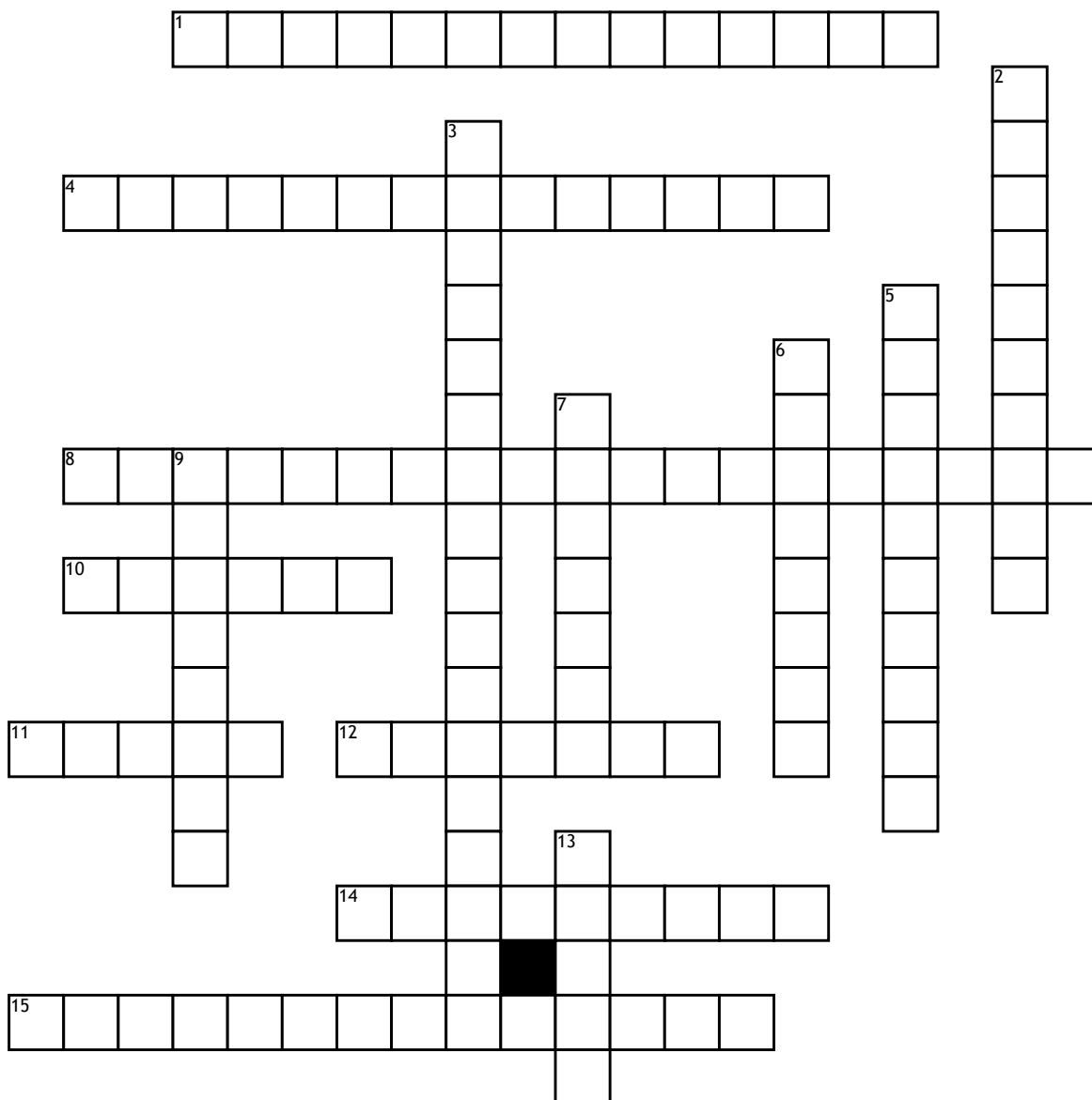


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Quadratics



## Across

1. A vertical line,  $X = \#$ , that splits the parabola into equal sections
4. a function in which the graph of the solutions forms a line
8. a function in which an independent variable appears as an exponent
10. The point on the graph where the parabola reaches a max or min value

11. A value (s) of the input  $X$  that makes the output  $f(x)$  true

12. The lowest  $Y$  value from the function; also the vertex of the function
14. an algebraic expression of three terms.

15. The most basic function of a family of functions

## Down

2. a number that produces a specified quantity when multiplied by itself.

3.  $Y = x^2 \rightarrow$  parent function. A function that can be written in the form  $f(x) = ax^2 + bx + c$

5. The point(s) where the parabola crosses the  $X$ -axis ( $X$  in ROXS)

6. an algebraic expression of two terms.

7. The highest  $Y$  value from the function; also the vertex of the function

9. The graph of a quadratic function; U shaped

13. The value of the variable that make the equation true