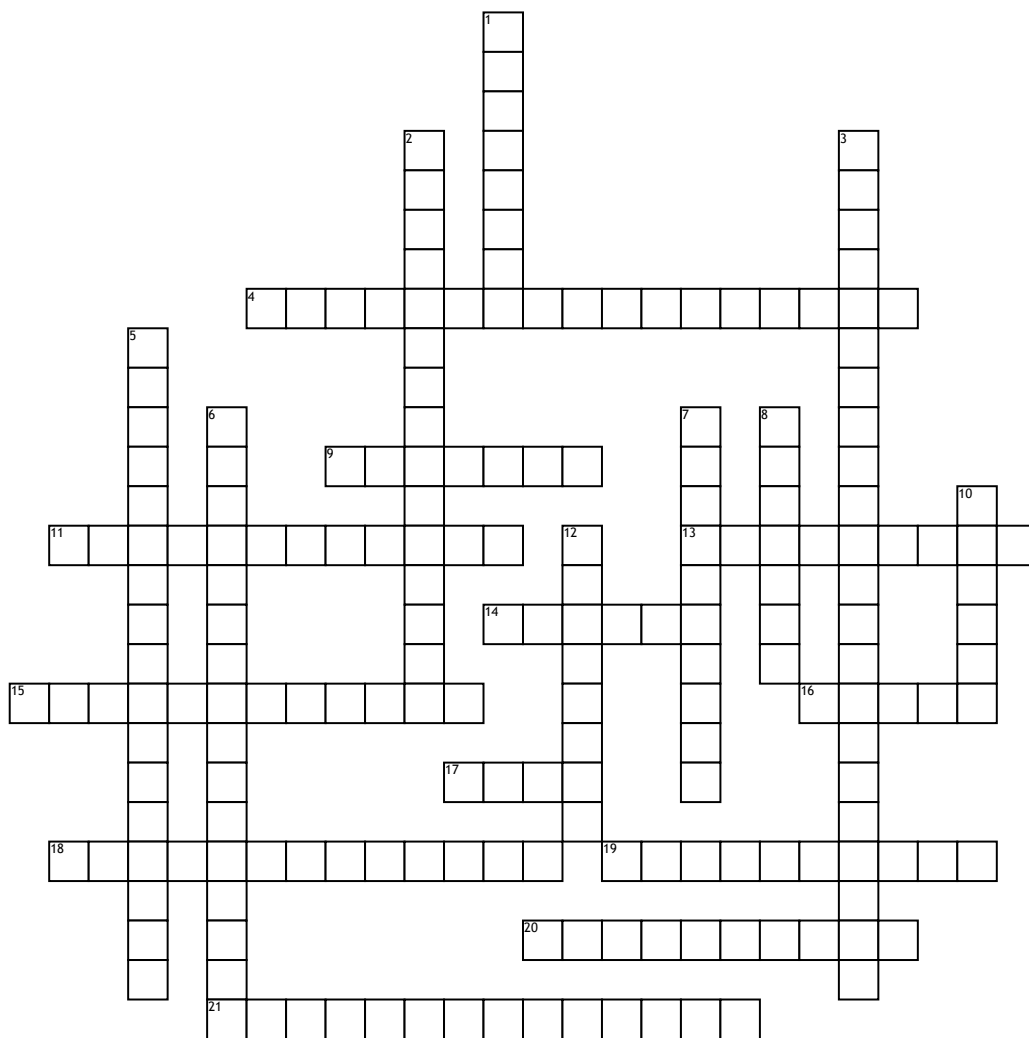


Name: _____

Date: _____

Quadratic Functions



Across

4. an equation of the second degree, meaning it contains at least one term that is squared
 9. the highest point on a graph
 11. $f(x) = a(x - h)^2$
 13. (of an algebraic expression) consisting of three terms
 14. the highest point on a graph
 15. a number or symbol that is written in front of and multiplies another number or symbol
 16. are x-intercepts of the graph

17. first, outer, inner, last

18. $y = a(x-p)(x-q)$

19. a number which produces a specified quantity when multiplied by itself

20. the x-coordinate of a point where a line, curve, or surface intersects the x-axis

21. a line through a shape so that each side is a mirror image

Down

1. a value that does not change
 2. raising a base to a power of 2

3. minimum

5. one of the form $f(x) = ax^2 + bx + c$, where a , b , and c are numbers with a not equal to zero.

6. $ax^2 + bx + c = 0$

7. $y = a(x - h)^2 + k$

8. \int

10. Information (such as numbers and descriptions) arranged in rows and columns

12. a symmetrical open plane curve formed by the intersection of a cone with a plane parallel to its side.

Word Bank

quadratic function

FOIL

the lowest point on a graph

intercept form

quadratic equation

roots

parabola

trinomial

vertex

tables

square root

constant

maximum

radical

quadratic formula

squared exponent

vertex form

standard form

axis of symmetry

coefficients

x-intercept