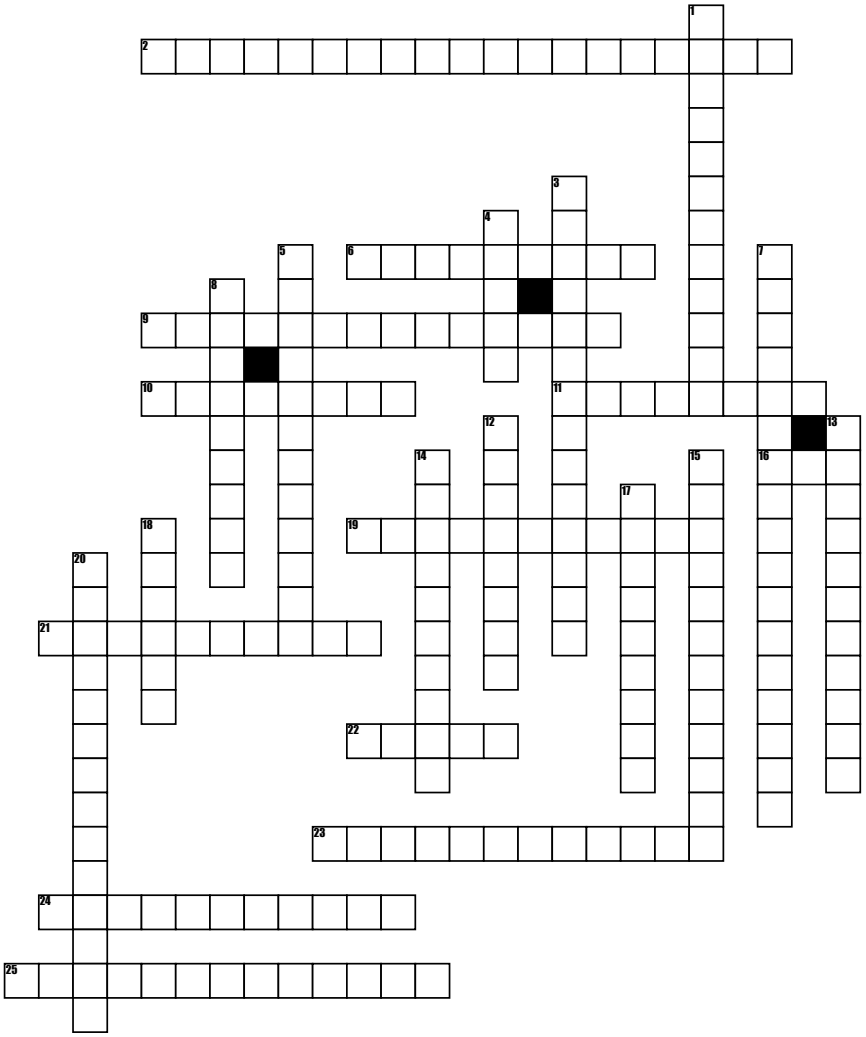
Name: _____ Date: _____ Period: _____

Quadratic



Across

2. The process of converting a quadratic equation into a perfect square trinomial by adding or subtracting terms on both sides.

6. The process of writing an expression as a PRODUCT.

9. the original function before a transformation is applied

10. An expression that contains two terms being added ,multiplied,or subtracted.

11. geometric property of figures that can be folded and each half matches the other exactly

16. What is the a value in 2x^2+3x+5

19. A quadratic function in which the vertex is a maximum. The function opens downward.

21. the point where the graph crosses the y axis. Find it in the equation by setting x = 0.

22. What is the c value in 5x^2+2x+3

23. What form of quadratics is :ax^2 + bx + c = 0

24. The property that states if the product of two numbers is 0, then at least one of the factors is 0.

25. trinomial whose factor form is the square of a binomial.

Down

1. Highest y value of the parabola when "a" is negative

3. X= -b/2a used to find what,previously used answer

4. the solution(s) to a quadratic equation

5. The vertex of a concave up parabola. The lowest point on this parabola.

7. a function with a variable that is squared

8. An expression that contains three terms.

12. the shape of the graph of a quadratic function

13. The number in front of a variable

14. the term in a quadratic function with a variable raised to the first power-you won't see an exponent with the variable

15. the number without a variable in the quadratic function, this is also the y intercept

17. Quadratic function in which the vertex is a minimums the function opens upwards.

18. the maximum or minimum value of the parabola.

20. the vertical line through the vertex that divides the parabola in half

Word Bank

Concaveup	Vertex	Y-intercept	Roots	Perfect square
Maximum value	Parabola	Binomial	Linear term	Symmetry
Completing the square	Parent function	Quadratic Function	Two	Minimumvalue
Factoring	Axis of Symmetry	Constant term	Concave down	Trinomial
Zero product	Axis of symmetry	Coefficient	Standard Form	Three