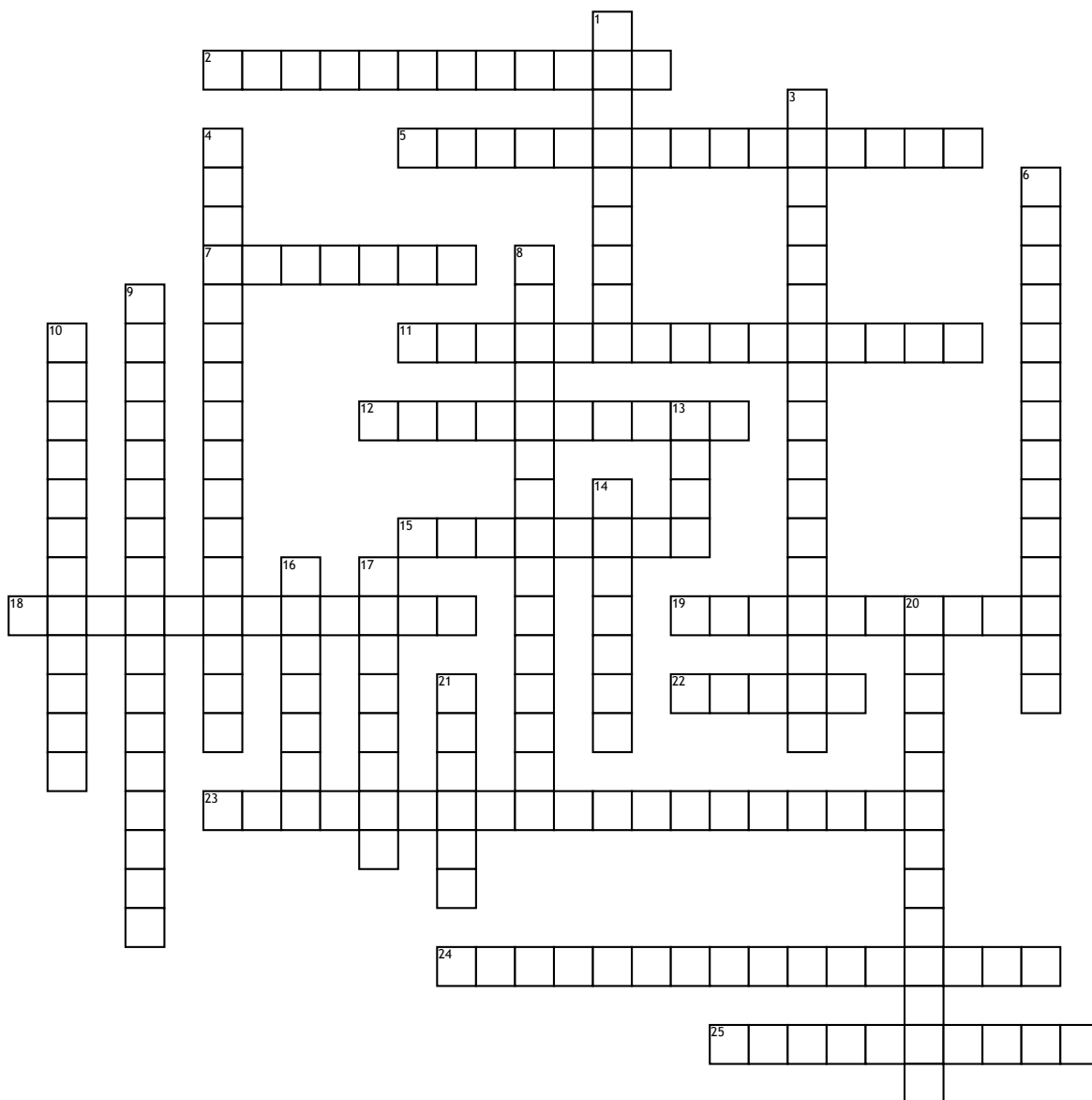


Name: _____

Date: _____

Quadratics Crossword Puzzle



Across

2. $y = ax^2 + bx + c$
 5. any number in the form $a + bi$, where a and b are real numbers and b doesn't equal zero
 7. an equation that has the radical symbol
 11. the linear and quadratic graphs don't intersect and no point satisfies both equations
 12. $y = a(x-h)^2 + k$
 15. a number without a variable
 18. $b^2 - 4ac$
 19. where the graph crosses the x-axis
 22. synonym for solution; setting the equation equal to zero to find the value of x

23. group $ax^2 + bx$ together and c in a group then add $(b/2)^2$ to both groups
 24. $x = -b$ plus or minus the square root of $b^2 - 4ac$ divided by $2a$ (a method of solving quadratic equations)
 25. a number that multiplies by itself to equal a quantity

Down

1. an algebraic expression that has three terms
 3. $f(x) = ax^2 + bx + c$ (represents the parabola)
 4. the linear and quadratic graphs intersect at two places (points), which satisfy both equations
 6. a line that divides an object in half creating mirror images on either side

8. the linear and quadratic graphs intersect at one point, which satisfies both equations
 9. $ax^2 + bx + c$ (can be solved by graphing, factoring, or completing the square)
 10. the number in front of (being multiplied by) the variable
 13. synonym for solution; where the graph crosses the x-axis
 14. the highest point on a graph
 16. the lowest point on a graph
 17. a u-shaped graph with a minimum or maximum vertex
 20. imaginary numbers and real numbers together ($a + bi$)
 21. (h, k) can either be a maximum or a minimum