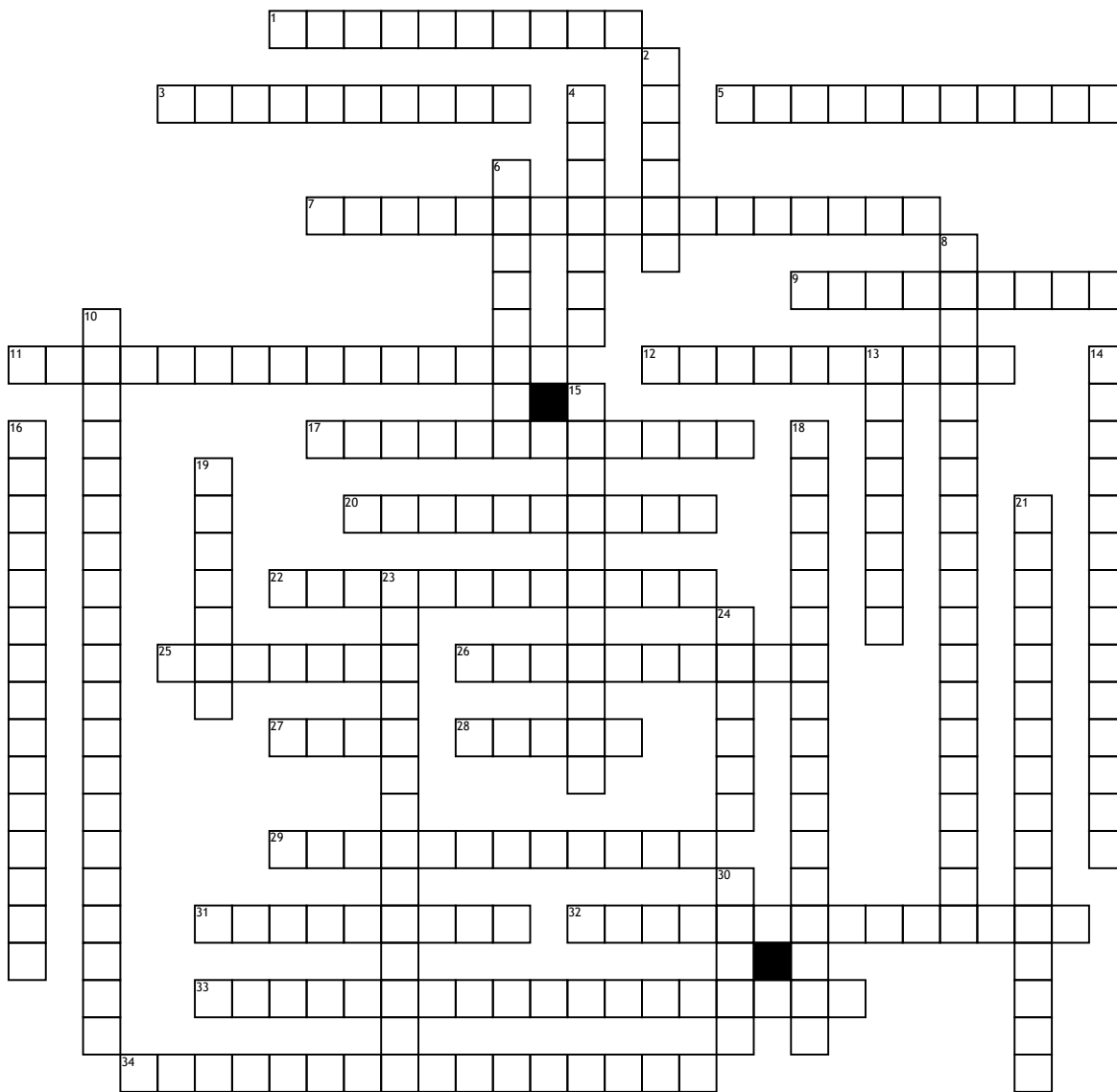


# Quadratics/Polynomial Crossword Puzzle



## Across

1. rational numbers that look alike but have different signs
3. a number that multiplies times itself
5. the numerical factor of a monomial
7. an equation containing at least one squared term
9. asking 4 questions to break down an equation to its smallest form
11. crosses the x axis one time
12. the line crosses the x axis here
17.  $Ax+By=C$
20.  $y=a(x-h)^2+k$
22.  $b^2-4ac$
25. highest y-coordinate on a graph
26. the line crosses the y axis here
27. a way to distribute two binomials
28. another name for the solutions of a quadratic equation

29. a line that goes in an even amount of directions

31. an equation with 3 terms
32. a line which splits down the middle of a shape and has equal parts on both sides
33. the sum of the exponents of the variable in a monomial
34. crosses the x axis twice

## Down

2. data arranged in rows and columns
4. the lowest y-coordinate on a graph
6. a symmetrical curve beginning at a fixed point
8. used to make a quadratic equation into a perfect trinomial
10. a rule that helps a person find the roots of a polynomial by looking at the signs

13. a monomial that does not contain variables

14. never crosses the x axis
15. a line that goes in an odd number of directions
16. the greatest y-coordinate of nearby points on a graph
18. a way to divide a polynomial by a binomial
19. a "division symbol" with a tail
21. x equals negative b plus or minus the square root of  $b^2$  minus  $4ac$  all over  $2a$
23. numbers in the form  $(a=bi)$  where a and b are real; i is imaginary
24. the axis of symmetry meets the parabola here
30. solutions of a quadratic equation