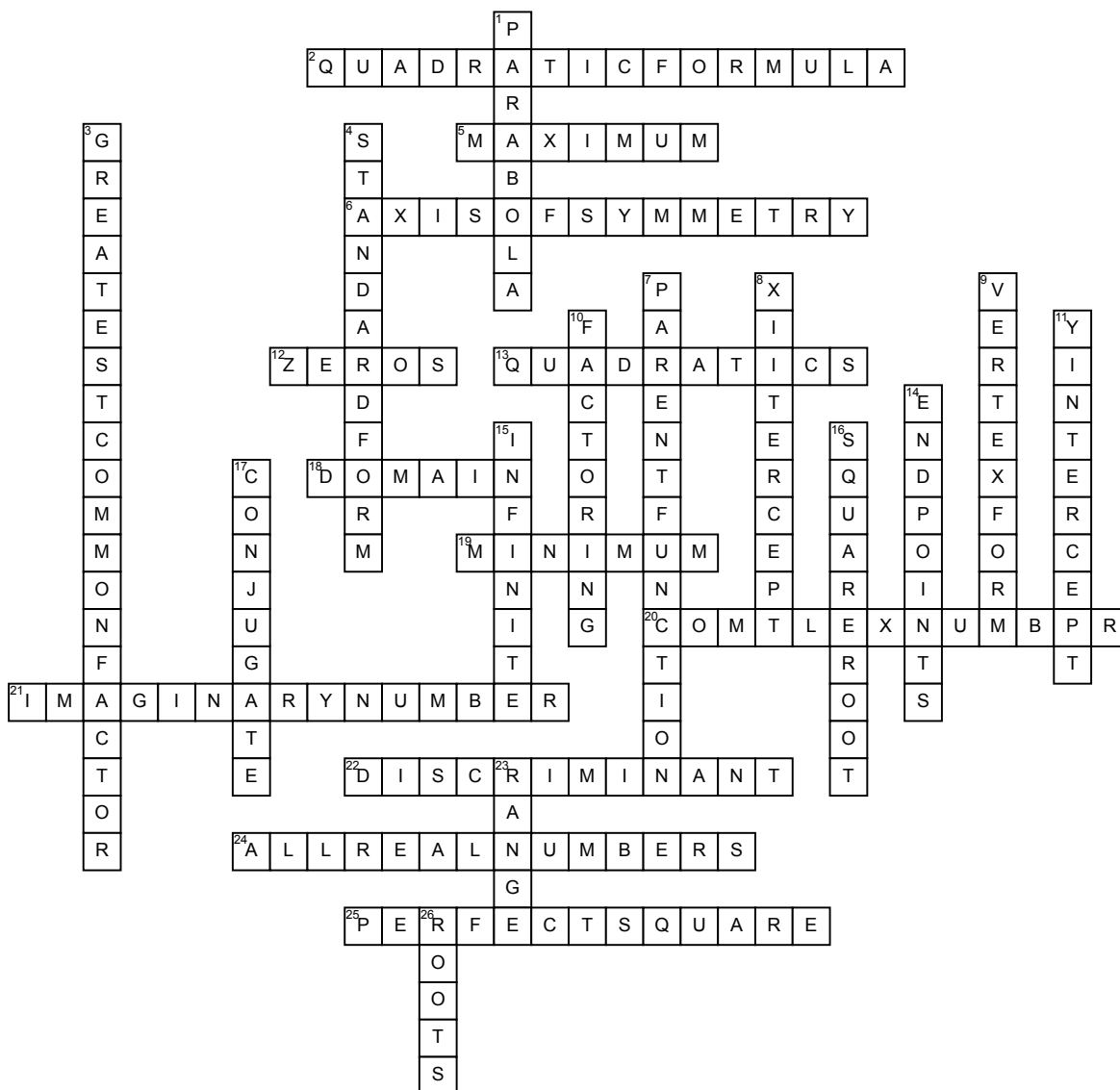


# Unit 5 Quadratic Functions Kiana Thymes



## Across

2. A formula that is utilized by a quadratic function  
 5. Highest point on a parabola  
 6. A line that divides a plane figure or graph into two congruent reflected halves  
 12. A value of  $x$  that makes the function's value zero  
 13. Expressions of the form  $Ax^2 + Bx + C$   
 18.  $x$ -values of a function  
 19. Lowest point on a parabola  
 20. And numbers with "I" in them  
 21. The square root of a negative number; represented at "I"  
 22. The expression that appears under the square root (radical) sign in the quadratic formula

## 24. Domain of a quadratic function

## 25. A square of a whole number

## Down

1. A u shaped graph formed by a quadratic function where all points are equal distant from focus to a directrix  
 3. (GCF) the largest factor that two or more numbers have in common  
 4.  $Ax + By = C$  where  $A$ ,  $B$ , and  $C$  are not decimals or fractions  $A$ , and  $B$  are both not zero and  $A$  is not a negative  
 7. The most basic function of a family of functions, or the original function before a transformation is applied  
 8. Where a graph crosses the  $x$ -axis  
 9. A quadratic function in the form  $y = a(x-h)^2 + k$ , where  $(h,k)$  is the vertex of the parabola and  $x=h$  is its axis of symmetry

## 10. The process of changing a sum to a product

## 11. Where a graph crosses the $y$ -axis

## 14. A point or value that marks the ends of a line on a graph

## 15. Limitless or endless in space, extent, or size

## 16. A number that when multiplied by itself equals a given number

## 17. The number with equal real part and imaginary part equal in magnitude but opposite in sign

## 23. $y$ -values of a function

## 26. The solutions to a quadratic equation