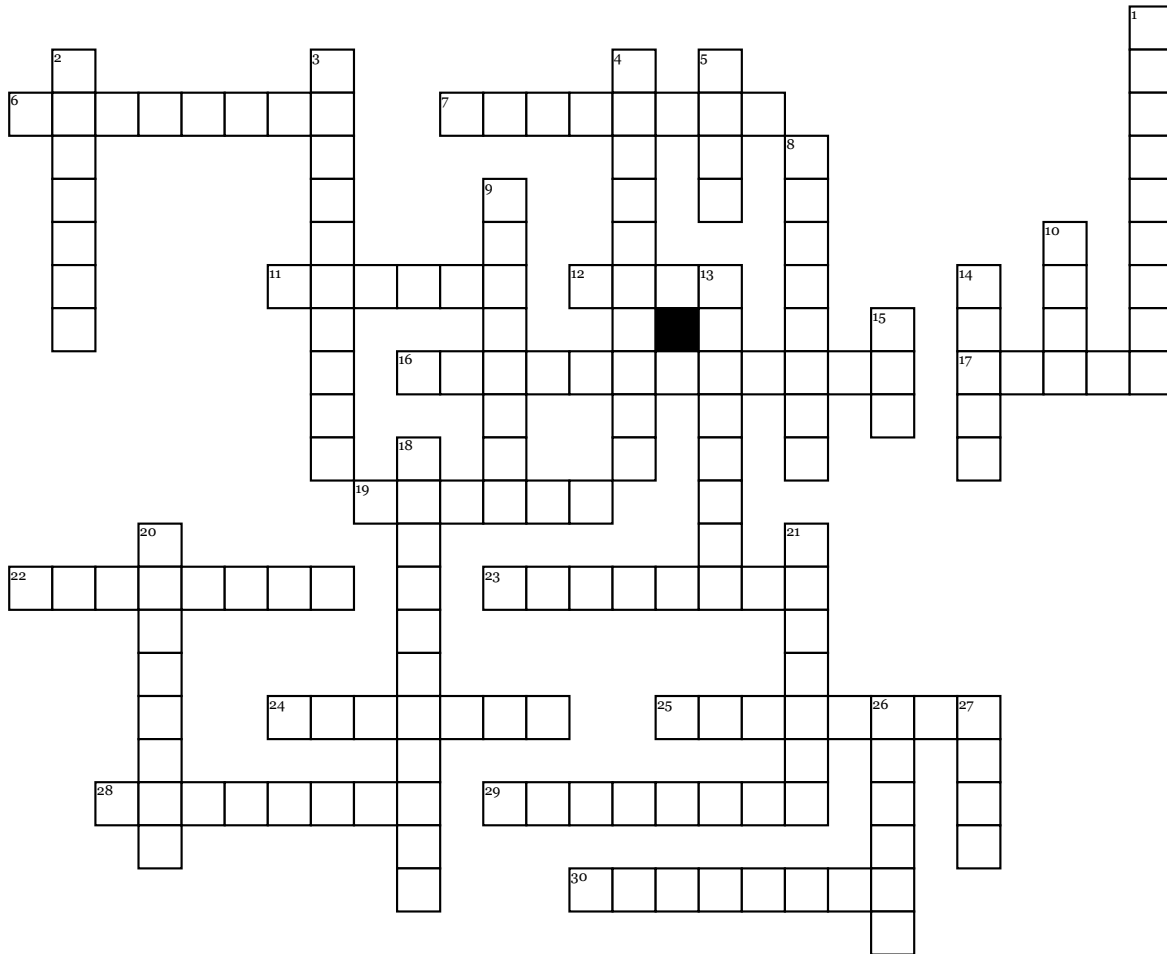Name: _____

"Algebra is fun!" Crossword Puzzle for 8-1

Across

6. A quotient of two rational expressions is called a rational _ _ _ _ _ _ _ _

7. The result of square root of 4 is a _ _ _ _ _ _ _ _ number.

11. To _ _ _ _ _ _ _ means to find what to multiply together to get a product.

12. If the discriminant of a quadratic equation is less than zero, then the equation has how many roots?

16. The three methods for solving a system of two linear equations are addition (elimination), _ _ _ _ _ _ _ _ _ _ _ _ and graphing.

17. To solve a quadratic equation means to find its _ _ _ _ _

19. All possible values of the variable for which the rational expression makes mathematical sense is called _ _ _ _ _ _ _ of the expression.

22. An algebraic expression with two terms.

23. The absolute value of a number describes the _ _ _ _ _ _ _ _ _ of a number on the number line from 0 without considering which direction from zero the number lies.

24. Square of Sum, Square of Difference, Difference of Squares are called _ _ _ _ _ _ _ products formulas.

25. Higher degree Inequalities can be solved by using the _ _ _ _ _ _ _ _ ("snake") method.

28. A lower case letter that is used to represent a number value that is unknown.

29. An algebraic expression that is a short representation of a repeated multiplication of a number.

30. To _ _ _ _ _ _ _ _ _ an equation is to find all values of its variable(s) that make it a true equality.

Down

1. The values of a variable that make an equation true.

2. In motion word problem, the distance traveled by the object is the _ _ _ _ _ _ _ _ of its rate and time of the trip.

3. A math statement that compares two non-equal algebraic expressions.

4. An algebraic expression with more than three terms.

5. In a motion word problem, the speed of a moving object is also called _ _ _ _ _

8. The value y is called a _ _ _ _ _ _ _ _ _ of the variable x if there is a rule that produced for every value of x exactly one value of y.

9. The shape of a graph of a quadratic function

10. Zero to the power of four equals to _ _ _ _

13. Two algebraic expressions connected with an equal sign.

14. We need a system with three linear equations to find the values of _ _ _ _ _ variables that make each equation true.

15. Any number to the power of zero equals to _ _ _

18. What do we call the number in front of a variable(s) in a monomial?

20. An algebraic expression with one term that is a real number, a variable, or any product of real numbers and variables.

21. _ _ _ _ _ _ _ is a number expressed as a fraction of 100.

26. Minimum or maximum point of a parabola

27. Monomials or terms with identical literal parts are called _ _ _ _ terms.