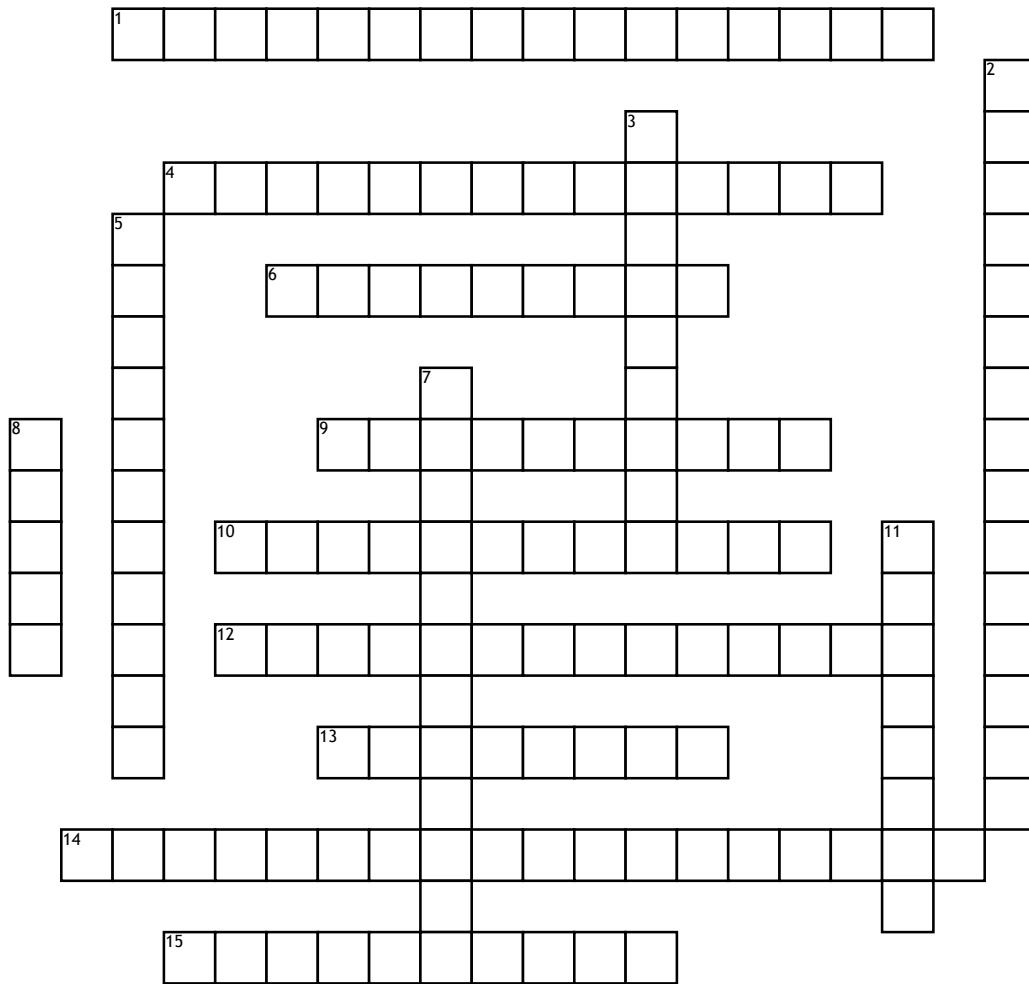


# Algebra Unit 4B Crossword Puzzle



**Across**

- 1. an efficient and effective way to display functions of all types in mathematics.
- 4. the equation of a straight line in the form  $y - y_1 = m(x - x_1)$  where  $m$  is the slope of the line and  $(x_1, y_1)$  are the coordinates of a given point on the line
- 6. an enumerated collection of objects in which repetitions are allowed. Like a set, it contains members (also called elements, or terms).
- 9. Definition of Y-Intercept. The y-coordinate of the point where a line intersects the y-axis is the y-intercept of that line. The x-coordinate of the point where a line intersects the y-axis is 0. So, the y-intercept of a line can also be found by substituting  $x = 0$  in the equation of the line
- 10. defined as two or more equations that are impossible to solve based on using one set of values for the variables.

- 12. a mathematical function in which the variables appear only in the first degree, are multiplied by constants, and are combined only by addition and subtraction.
  - 13. the process of using various mathematical structures - graphs, equations, diagrams, scatterplots, tree diagrams, and so forth - to represent real world situations
  - 14. A "system" of equations is a set or collection of equations that you deal with all together at once
  - 15. the branch of mathematics dealing with the properties and manipulation of numbers
- Down**
- 2. mathematical relationship between two variables that can be expressed by an equation in which one variable is equal to a constant times the other

- 3. a variable whose value depends upon independent variable
- 5. a variable that represents a quantity that is being manipulated in an experiment
- 7. A general term meaning "written down in the way most commonly accepted" It depends on the subject
- 8. The rate of change of a line. For any two points, it is the change in the y values divided by the change in the x values, and is referred to as the change in the rise over the change in the run of a line.
- 11. a number on its own, or sometimes a letter such as a, b or c to stand for a fixed number.

**Word Bank**

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|----------------------|-----------------|------------------|-------------------|
| independent          | arithmetic      | modeling         | point-slope form  |
| sequences            | Intercepts      | dependent        | standard form     |
| slope                | constant        | inconsistent     | function notation |
| systems of equations | linear function | direct variation |                   |