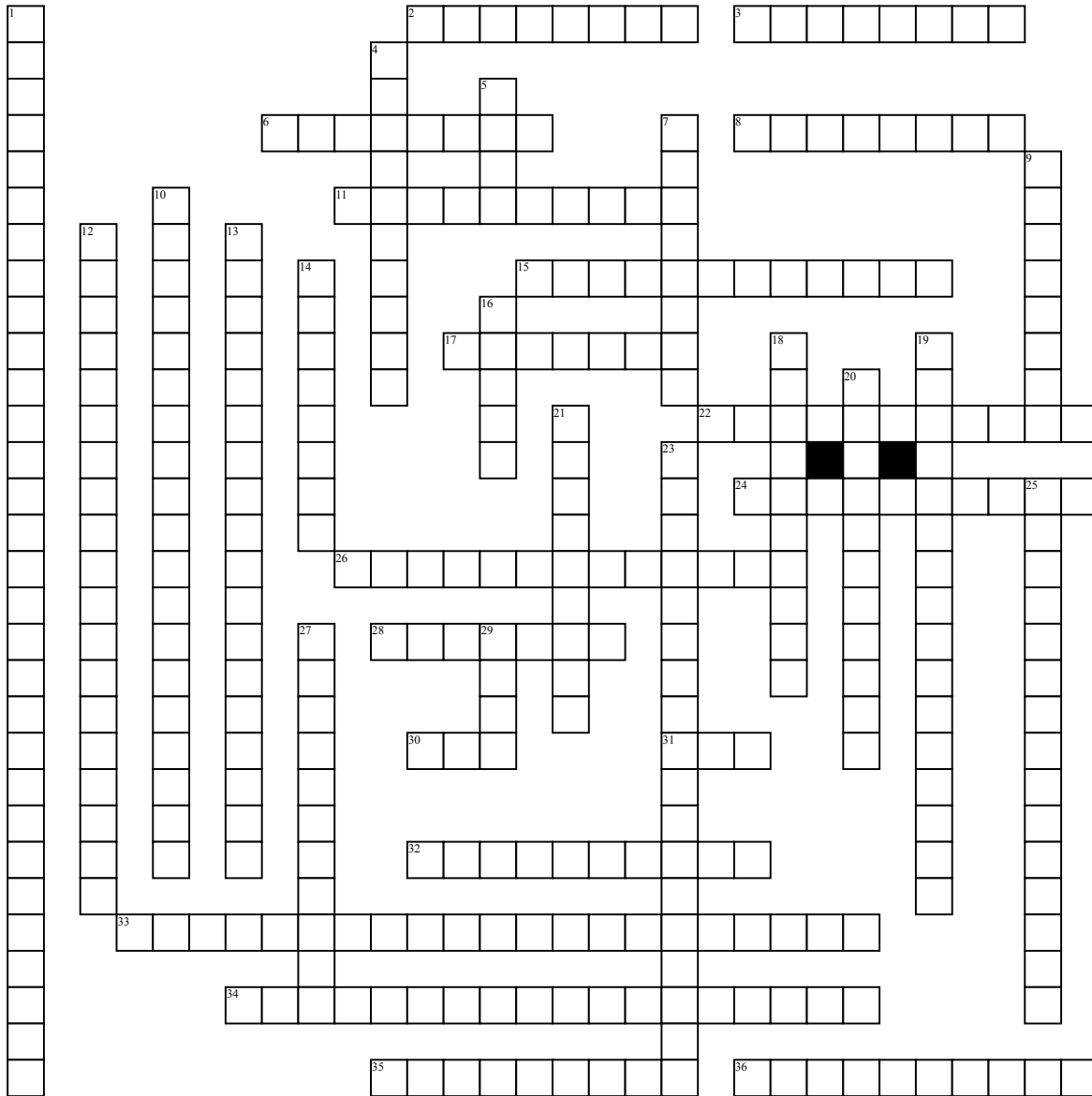


Chapter 1 Terms



Across

- 2. The solution set for an equation that has no solution
- 3. a result obtained by dividing one quantity by another
- 6. a set of real numbers with the property that any number that lies between two numbers in the set is also included in the set
- 8. A written statement indicating the equality of two expressions
- 11. A straight line on which each point represents a real number
- 15. a number preceded by a plus sign (+) to indicate a positive quantity or by a minus sign (-) to indicate a negative quantity.
- 17. the result of multiplying, or an expression that identifies factors to be multiplied
- 22. a set that is not a finite set
- 24. is obtained by interchanging the numerator and the denominator, i.e. by inverting the fraction
- 26. How far a number is from zero
- 28. numbers we can multiply together to get another number
- 30. The result of adding two or more numbers
- 31. a well-defined collection of distinct objects, considered as an object in its own right.
- 32. A set of values that show an exact position.

- 33. expressing the repeated multiplication of a number by itself
 - 34. A shorthand used to write sets, often sets with an infinite number of elements.
 - 35. a natural number
 - 36. a quantity of which a given quantity is the square
- Down**
- 1. There is a unique number, called the multiplicative identity, 1, which, when multiplied by a number, results in the original number; in symbols, $a \cdot 1 = a$
 - 4. a relation that holds between two values when they are different
 - 5. The number of different digits or combination of digits and letters that a system of counting uses to represent numbers
 - 7. members, a set is any one of the distinct objects that make up that set.
 - 9. a quantity that may change within the context of a mathematical problem or experiment
 - 10. an expression built up from integer constants, variables, and addition, subtraction, multiplication, and division
 - 12. it is the positive square root of a number
 - 13. a mathematical process used to simplify an expression or to add or subtract polynomials
 - 14. the number of times a number is multiplied times itself

- 16. a diagram representing a system of connections or interrelations among two or more things by a number of distinctive dots, lines, bars, etc.
- 18. the result of a subtraction problem
- 19. Using the infinity symbol
- 20. terms having the same variable with different exponents or different variable with same exponents
- 21. mathematical terms that have the exact same variables and exponents.
- 23. one of two square roots of a positive number
- 25. is the number that, when added to a, yields zero
- 27. A number or symbol multiplied with a variable or an unknown quantity in an algebraic term
- 29. is either a single number or variable, or numbers and variables multiplied together