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Algebra 1 Chapter 1 Vocabulary

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| **Across**  **7.** For every real number a, b, and c.  **9.** The nonegative integers.  **11.** A mathematical sentence that compares the values of two expressions using an inequality symbol.  **12.** A number a such that a2=b. The sqaure root of b is the principalsquare root. - sqaure root of b is the negative sqaure root.  **13.** A mathematical phrase involving numbers and operation symbols, but no variables.  **15.** A number that shows repeated multiplication.  **17.** A number that cannot be written as a ratio of two integers. Irrational numbers in decimal farm are nonterminating and nonrepeating.  **18.** The numerical factor when a term has a variable.  **19.** Algebraic expressions that have the same value for all values of the variables.  **20.** Given a nonzero rational number a/b, the reciprocal, or multiplicative inverse, is b/a. The product of a nonzero number and its reciprocal is 1. | **Down**  **1.** Numbers whoses square roots are integers.  **2.** A number that is either rational or irrational.  **3.** A symbol, usually a letter, that represents one or more numbers.  **4.** A number that is the same distance from zero on the number line as a given number, but lies in the opposite direction.  **5.** A mathematical sentence that uses an equal sign.  **6.** A real number that can be written as a ratio of two integers. Rational numbers in decimal form are terminating or repeating.  **8.** Whole numbers and their opposites.  **10.** 1. Perform any operations inside grouping symbols. 2. Simplify powers. 3. Multiply and divide in order from left to right. 4. Add and subtract in order form left to right.  **14.** The counting numbers.  **16.** The expression under the radical sign is the radicand. |