

1.1-1.3 Quiz Review

Name:

Date:

Period:

Vocabulary: Given the list of numbers below, place each number in the correct category or categories:

$$\sqrt{30}, \frac{17}{3}, 6, -13, 0, -\frac{135}{3}$$

1. Whole numbers:

2. Integers:

3. Rational numbers:

4. Irrational numbers:

Properties of Real Numbers

5. Identify the property shown:

$$(4+6) + 3 = 4 + (6 + 3)$$

6. Identify the property shown:

$$4(3 - 2) = 4 \cdot 3 - 4 \cdot 2$$

Evaluating Expressions

7. Evaluate $2x - (3x + 1)$ when $x = \frac{1}{2}$

8. Evaluate $x^2 - 2x + 3$ when $x = -2$

Simplifying Expressions

9. Simplify: $4x - 3y - 4 + 6x - 2y$

10. Simplify: $3(3x + x) - 4(x^2 + 2x)$

11. You are buying a total of 6 notebooks for class. Some of the notebooks are regular size and some are jumbo. Regular-sized notebooks cost \$1.89 each and jumbo notebooks cost \$3.49 each. Write an expression for the total amount you spend on notebooks.

Solve the following equations:

12. $3x + 7 = 22$

13. $\frac{2}{3}x + 5 = 0$

14. $2y + 5 = -7y + 32$

15. $0.2(x - 10) = 0.6x - 14$