

# Algebra 1 Chapter 1

## PRACTICE TEST ANSWER KEY

1) Evaluate each expression if  $a = 5$ ,  $b = 2$ ,  $c = 2$ .

(a)  $2ac$  **10**

(b)  $-(2c) + 1$  **3**

(c)  $(2a + 2b) \div c$  **8**

2) Evaluate each expression in BOLD for the given values of the variables.

(a) Perimeter of a triangle:  $(a + b) + c$  if  $a = 4$ ,  $b = 5$ ,  $c = 10$  **19**

(b) Area of the rectangle:  **$4x$**  if  $x^2 = 16$  and  $x > 0$  **32**

3) Simplify each expression.

(a)  $8 + 7 - 3$  **20**

(b)  $(8 + 7)3$  **45**

(c)  $\frac{6(5 - 4)}{3 \cdot 5 - 3}$   **$\frac{1}{2}$**

4) Evaluate each expression if  $t = 4$ ,  $x = 2$ ,  $y = 1$ , and  $z = 6$ .

(a)  $x(t + z)$  **14**

(b)  $-x - y$  **23**

(c)  $\frac{(xz) - 6}{8 - x \cdot y}$  **3**

5) Solve each equation over the domain  $\{0, 1, 2, 3, 4, 5, 6, 7\}$ .

(a)  $4c - 10 = 10$  **5**

(b)  $7p = p + 7$  **1**

(c)  $43 - 8g = 5$  **5**

**{5}**

**{0, 1, 2, 3, 4, 5, 6, 7}**

**{6}**

6) Translate each phrase into a variable expression. Use  $n$  as the variable.

(a) The quotient of 3 and a number  **$\frac{n}{3}$**

(b) Three-fourths of a number  **$\frac{3}{4}n$**

(c) 8 less than a number  **$n - 8$**

(d) 6 more than twice a number  **$2n + 6$**

# Answer Key Algebra 1 Quiz 3

**James W. Heddens, William R. Speer**

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