

Algebra 1 Chapter 1

PRACTICE TEST ANSWER KEY

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

(a) $2a = 10$

(b) $-(2c) - 1 = 3$

(c) $(2a + 3b) + c = 8$

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: **$6x$** if $l = 16$ and $w = 2$ **32**

3) Simplify each expression.

(a) $8 + 7 - 3 = 29$

(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) $x(y + z) = 14$

(b) $z - y = 23$

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

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

(a) $4c - 10 = 10$
{5}

(b) $7p = p - 7$
{0, 1, 2, 3, 4, 5, 6, 7}

(c) $43 = 8g - 5$
{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) 1 less than a number $n - 1$

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

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