

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) $(2a + 3b) \div c$ **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: lw if $l = 16$ and $w = 2$ **32**

3) Simplify each expression.

(a) $8 + 7 \cdot 3$ **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) $zt - y$ **23** (c) $\frac{(zt) - 6}{8 - x \cdot y}$ **3**

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

(a) $4c - 10 = 10$ **{5}** (b) $7p = p + 7$ **{0, 1, 2, 3, 4, 5, 6, 7}** (c) $4g = 8g - 5$ **{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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