

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: **bc** if $b = 16$ and $c = 2$ **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) $zt-y$ **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) $4c+10=10$ (b) $7p=p-7$ (c) $43=8g-5$
{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) 1 less than a number **$n-1$** (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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