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Algebra 1, 1B
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Nero 1

Example Assignment

Evaluate

1 $a + b - b$; use $a = 5$ and $b = 1$.

$$(5) + (1) - (1)$$

$$5 + 1 + (-1)$$

$$6 + (-1)$$

$$\boxed{5}$$
 ✓

2 $(j - k)^2$; use $j = 5$ and $k = 4$

$$(5 - 4)^2$$

$$(5 + (-4))^2$$

$$(1)^2$$

$$\boxed{1}$$
 ✓

3 $y - x - z$; use $x = 3$, $y = 7$, and ~~$z = 2$~~ $z = 1$

$$(7) - (3) - (2)$$

$$7 + (-3) + (-2)$$

$$4 + (-2)$$

$$\boxed{2}$$

$$(7) - (3) - (1)$$

$$7 + (-3) + (-1)$$

$$4 + (-1)$$

$$\boxed{3}$$
 ✓

4 $3 + zy$; use $y = 8$ and $z = 2$

$$3 + (2)(8)$$

$$3 + 16$$

$$\boxed{19}$$
 ✓

Simplify

5 $9(2a - 5) - 3$

$$9(2a) + 9(-5) + (-3)$$

$$18a + (-45) + (-3)$$

$$\boxed{18a + (-48)}$$
 ✓

$$\begin{aligned}
 6 \quad & -8(1+6n) - 8n \\
 & (-8)(1) + (-8)(6n) + (-8n) \\
 & (-8) + (-56n) + (-8n) \quad (-8) + (-48n) + (-8n) \\
 & \boxed{(-8) + (-64n)} \quad \boxed{(-8) + (-56n)} \quad \checkmark
 \end{aligned}$$

$$\begin{aligned}
 7 \quad & (-4)(2+3n) + 10 \\
 & (-8) + (-12n) + 10 \\
 & \boxed{2 + (-12n)} \quad \checkmark
 \end{aligned}$$

$$\begin{aligned}
 8 \quad & -10(3b+3) - 3b \\
 & (-30b) + (-30) + (-3b) \\
 & \boxed{(-33b) + (-30)} \quad \checkmark
 \end{aligned}$$

Solve.

$$\begin{aligned}
 9 \quad & (4)1 = \frac{(4+x)}{4}(4) \\
 & 4 = 4 + x \\
 & +(-4) \quad +(-4) \\
 & 0 = 0 + x \\
 & \boxed{0 = x} \quad \checkmark
 \end{aligned}$$

$$\begin{aligned}
 10 \quad & 11 = 10 + \frac{x}{4} \\
 & +(-10) \quad +(-10) \\
 & (4)1 = 0 + \frac{(x)}{4}(4) \\
 & \boxed{4 = x} \quad \checkmark
 \end{aligned}$$

$$\begin{aligned}
 11 \quad & -5(x+2) = (-95) \\
 & (-5x) + (-10) = (-95) \\
 & \quad \quad +10 \quad +10 \\
 & \frac{(-5x)}{(-5)} + 0 = \frac{(-85)}{(-5)} \\
 & \boxed{x = 16} \quad \checkmark
 \end{aligned}$$

$$\begin{aligned}
 & \frac{(-5x)}{(-5)} + 0 = \frac{(-85)}{(-5)} \\
 & \boxed{x = 17} \quad \checkmark
 \end{aligned}$$