Algebra 1 Bellwork Wednesday, September 16, 2015

Simplify each. Do NOT use a calculator for these problems.

1. $4 + 2(4^2 - 11)^2$

2. $17 - 2[1 + (5 - 2)^2] + 8$

3. $24 \div -3|6 - (2)^3| - |-7 + 2|$

Solve each equation. Do NOT use a calculator for these problems.

4. $-3 + w = -14$

5. $\frac{c}{4} = 12$

6. $-5k = 40$

7. $-g = 20$

Algebra 1 Bellwork Wednesday, September 16, 2015 Answers

Simplify each. Do NOT use a calculator for these problems.

1. $4 + 2(4^2 - 11)^2$

$= 4 + 2(16 - 11)^2 = 4 + 50$

$= 4 + 2(5)^2 = 54$

$= 4 + 2(25)$

2. $17 - 2[1 + (5 - 2)^2] + 8$

$(3)^2$

$[1 + 9]$

$= 17 - 2[10] + 8$

$= 17 - 20 + 8$

$= -3 + 8 = 5$

3. $24 \div -3|6 - (2)^3| - |-7 + 2|$

$|6 - 8| - |-5|$

$|-2| - |-5|$

$= 24 \div -3(2) - 5$

$= -8(2) - 5 = -16 - 5 = -21$

Solve each equation. Do NOT use a calculator for these problems.

4. $-3 + w = -14$

$+3 \quad +3$

$w = -11$

5. $4 \cdot \frac{c}{4} = 12 \cdot 4$

$c = 48$

6. $-5k = 40$

$\frac{}{-5} \quad \frac{}{-5}$

$k = -8$

7. $\frac{-g}{-1} = \frac{20}{-1}$

$g = -20$