

Name
1/20/12
Algebra Readiness 7
Period #1

Outcome: Solve two-step equations with variables on both sides.

$$\begin{array}{r} 6 + 1.3n = 12 + 0.9n \\ -0.9n \quad -0.9n \\ \hline 6 + 0.4n = 12 \\ -6 \quad -6 \\ \hline 0.4n = 6 \\ \div 0.4 \quad \div 0.4 \\ \hline n = 15 \end{array}$$

Remove the smaller variable

Remove the 6 from both sides

Divide both sides by 0.4

$$\begin{array}{r} 3m - 2 = 2m + 5 \\ -2m \quad -2m \\ \hline 1m - 2 = 5 \\ +2 \quad +2 \\ \hline 1m = 7 \\ m = 7 \end{array}$$

$$\begin{array}{r} 2n + 1 = 2(5n - 1) \\ 2n + 1 = 2(5n + -1) \\ 2n + 1 = 10n + -2 \\ -2n \quad -2n \\ \hline 1 = 8n + -2 \\ -(-2) \quad -(-2) \\ \hline 3 = 8n \\ \div 8 \quad \div 8 \\ \hline 3/8 = n \quad \text{or} \quad 0.375 = n \end{array}$$