

10/16

Tuesday, October 16, 2012
10:13 AMMulti-Step Equations

Steps
 * Distribute
 * CLT
 * Add/Subtr.
 * mult/DN.

Exs:

$$\textcircled{1} \quad 8(2x-1) = 56$$

$$\begin{array}{r|l} 16x - 8 & = 56 \\ + 8 & + 8 \\ \hline 16x & = 64 \\ \underline{16} & \underline{16} \end{array}$$

$$x = 4$$

$$\text{CK: } 8(2(4)-1) \stackrel{?}{=} 56$$

$$\begin{aligned} 8(8-1) &= 56 \\ 8(7) &= 56 \\ 56 &= 56 \checkmark \end{aligned}$$

$$\textcircled{2} \quad 5x - 2(x-5) = x - 12$$

$$5x - 2x + 10 = x - 12$$

CLT

$$\begin{array}{r} 3x + 10 = x - 12 \\ -x \quad -x \\ \hline \end{array}$$

$$\begin{array}{r} 2x + 10 = -12 \\ -10 \quad -10 \\ \hline 2x = -22 \\ \underline{2} \quad \underline{2} \end{array}$$

$$x = -11$$

$$\begin{aligned} \text{CK: } 5(-11) - 2(-11-5) &= -11 - 12 \\ -55 - 2(-16) &= -23 \\ -55 + 32 &= -23 \\ -23 &= -23 \checkmark \end{aligned}$$