Solving Equations with Variables on Both Sides

Step 1- Distribute if necessary.

Step 2- Combine like terms on the same side, if necessary.

Step 3- Move your variables to the same side using opposite operations.

Step 4- Move your constants to the same side using opposite operations

Step 5- Solve for your variable.

$$\begin{array}{r|l} -2+10p = 8p-1 & \\ -8p & -8p \\ \hline -2+2p & -1 \\ +2 & +2 \\ \hline \frac{2p}{2} & \frac{1}{2} \\ p & = \frac{1}{2} \end{array}$$

$$\begin{array}{r|l} 4(2y-8) = \frac{1}{7}(49y+70) & \\ 8y-32 & = 7y+10 \\ -7y & -7y \\ \hline y-32 & 10 \\ +32 & +32 \\ \hline y & = 42 \end{array}$$