

8/11/14

Clearing the decimal from a
one-variable equation

$$100 \left[0.06x + 0.09(15-x) = 0.07(15) \right] 100$$

quantity

$$6x + 9(15-x) = 7(15)$$

$$6x + 135 - 9x = 105$$

$$-3x + 135 = 105$$

$$\begin{array}{r} -135 \quad -135 \\ \hline \end{array}$$

$$\begin{array}{r} -3x = -30 \\ \hline -3 \quad \quad 3 \end{array}$$

$$x = 10$$

Note:

Observe the number of decimal places, multiply by the correct factor of 10.