

U4L4 Equations with Variables on both sides

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A) Review

$$1) \quad \begin{array}{r} -2 \\ 5x + 2 = 30 \\ \hline 5x = 28 \\ \hline x = \frac{28}{5} = 5.6 \end{array} \checkmark$$

$$x = \frac{28}{5} = 5.6 \checkmark$$

$$2) \quad \begin{array}{r} 4m + 2m = -18 \\ \hline 6m = -18 \\ \hline m = -3 \end{array} \checkmark$$

$$m = -3 \checkmark$$

check: $\frac{4m+2m}{6} = \frac{-18}{6}$

$$\frac{4(-3)+2(-3)}{6} = \frac{-18}{6}$$

$$\frac{-12+(-6)}{6} = \frac{-18}{6}$$

$$\frac{-18}{6} = \frac{-18}{6} \text{ YES!}$$

$$3) \quad \begin{array}{r} -4.2 \\ 4.2 + 0.5y = 8.1 \\ \hline 0.5y = 3.9 \\ \hline y = \frac{3.9}{0.5} \end{array} \checkmark$$

$$y = 7.8 \checkmark$$

Letters = Numbers

B) 1) $5x - 8x = -x + 8$

$$\begin{array}{r} -x \\ 5x - 8x = -x + 8 \\ \hline -3x = -x + 8 \end{array}$$

$$\begin{array}{r} -4x = 8 \\ \hline -4 \quad -4 \\ x = -2 \end{array} \checkmark$$

$$x = -2 \checkmark$$

Letters = Numbers

2) $3y + 5y = 5y - 6$

$$\begin{array}{r} -5y \\ 3y + 5y = 5y - 6 \\ \hline 8y = 5y - 6 \end{array}$$

$$\begin{array}{r} 3y = -6 \\ \hline 3 \quad 3 \\ y = -2 \end{array} \checkmark$$

$$y = -2 \checkmark$$

Note: move entire terms by
Add/Sub whole term! $-1x$ both sides

U4L4 WST 4, 10, 11, 15, 17, 23, 26, 30, 35, 42 / 10 = %