

HW multi-step Equations 41

$$1.) \begin{array}{r} -5(2w+1) = 25 \\ -10w - 5 = 25 \\ +5 \quad +5 \\ \hline -10w = 30 \\ -10 \quad -10 \\ \hline w = -3 \end{array}$$

$$5.) \begin{array}{r} -3(2d-8) + 10d = 16 \\ -6d + 24 + 10d = 16 \\ 4d + 24 = 16 \\ -24 \quad -24 \\ \hline 4d = -8 \\ 4 \quad 4 \\ \hline d = -2 \end{array}$$

$$2.) \begin{array}{r} -40 - 3(2x+5) = -61 \\ -40 - 6x - 15 = -61 \\ -55 - 6x = -61 \\ +55 \quad +55 \\ \hline -6x = -6 \\ -6 \quad -6 \\ \hline x = 1 \end{array}$$

$$6.) \begin{array}{r} \text{half} \\ 2m + 0.5(m-4) = 9 \\ 2m + 0.5m - 2 = 9 \\ 2.5m - 2 = 9 \\ +2 \quad +2 \\ \hline 2.5m = 11 \end{array}$$

$$3.) \begin{array}{r} -5g - 1(8-g) = 12 \\ -5g - 8 + g = 12 \\ -4g - 8 = 12 \\ +8 \quad +8 \\ \hline -4g = 20 \\ -4 \quad -4 \\ \hline g = -5 \end{array}$$

$$\begin{array}{r} 2.5m = 11 \\ 2.5 \quad 2.5 \\ \hline m = 4 \frac{2}{5} \\ \text{or} \\ 4.4 \\ \text{or} \\ \frac{11}{1} \div \frac{2.5}{2} \checkmark \\ \frac{11}{1} \cdot \frac{2}{5} = \frac{22}{5} \end{array}$$

$$4.) \begin{array}{r} 42 = -18t + 4(t+5) \\ 42 = -18t + 4t + 20 \\ 42 = -14t + 20 \\ -20 \quad -20 \\ \hline 22 = -14t \\ -14 \quad -14 \\ \hline t = -1 \frac{11}{7} \end{array}$$

$$7.) \begin{array}{r} 5x - 12 = 72 \\ 4x + 6 = 15 \\ 3x + 9 = 15 \\ \hline 12x + 3 \end{array}$$

$$t = -1 \frac{11}{7} \text{ simplify}$$

$$t = -1 \frac{4}{7}$$

8) ^{perimeter}
 $P = 2l + 2w$
 $2(8x + 23) + 2(x - 5)$
 $16x + 46 + 2x - 10$

$18x + 36 \rightarrow$ perimeter

same

2 lengths	or	2 widths
$8x + 23$		$x - 5$
$8x + 23$		$x - 5$
$16x + 46$		$2x - 10$

add

$18x + 36$