

HOMEWORK OCT. 6

glue on page 32

Review Solving Equations

Created for you by Mr Hempel

Directions: Solve the two-step equation by performing the inverse operations. Keep in mind the variable needs to be by itself. Show your work on pages 32 & 33

1.) $6y - 5 = 7$	2.) $13 + 7x = 27$
3.) $\frac{m}{5} + 9 = 11$	4.) $26 = 22 + \frac{v}{7}$
5.) $5y + 4 - 2y = 16$	6.) $4w + 5 + 3w - 2 = 45$
7.) $4(3t - 2) = 88$	8.) $2(3x + 1) = 14$

$$\begin{array}{r} 1.) \quad 6y - 5 = 7 \\ \quad +5 \quad +5 \\ \hline 6y = 12 \\ \quad \underline{\quad} \quad \underline{\quad} \\ 6 \quad \quad 6 \\ \hline y = 2 \end{array}$$

$$\begin{array}{r} 3.) \quad \frac{m}{5} + 9 = 11 \\ \quad \underline{\quad} \quad \underline{\quad} \\ 5 \quad -9 \quad -9 \\ \hline (5) \frac{m}{5} = 2(5) \\ \quad \underline{\quad} \\ 5 \quad \quad \quad \\ \hline m = 10 \end{array}$$

$$\begin{array}{r} 2.) \quad 13 + 7x = 27 \\ \quad -13 \quad \quad -13 \\ \hline 7x = 14 \\ \quad \underline{\quad} \quad \underline{\quad} \\ 7 \quad \quad 7 \\ \hline x = 2 \end{array}$$

$$\begin{array}{r} 4.) \quad 26 = 22 + \frac{v}{7} \\ \quad \underline{\quad} \quad \underline{\quad} \\ -22 \quad -22 \\ \hline (7) 4 = \frac{v}{7} (7) \\ \quad \underline{\quad} \\ 7 \quad \quad \quad \\ \hline v = 28 \end{array}$$

$$5.) \quad \begin{array}{r} 5y + 4 - 2y = 16 \\ 3y + 4 = 16 \\ \underline{-4 \quad -4} \end{array}$$

$$\frac{3y}{3} = \frac{12}{3}$$

$$y = 4$$

$$6.) \quad \begin{array}{r} 4w + 5 + 3w - 2 = 45 \\ 7w + 3 = 45 \\ \underline{-3 \quad -3} \end{array}$$

$$\frac{7w}{7} = \frac{42}{7}$$

$$w = 6$$

$$7.) \quad \begin{array}{r} 4(3t - 2) = 88 \\ 12t - 8 = 88 \\ \underline{+8 \quad +8} \end{array}$$

$$\frac{12t}{12} = \frac{96}{12}$$

$$t = 8$$

$$8.) \quad \begin{array}{r} 2(3x + 1) = 14 \\ 6x + 2 = 14 \\ \underline{-2 \quad -2} \end{array}$$

$$\frac{4x}{4} = \frac{12}{4}$$

$$x = 3$$