

$$\frac{0.4x}{0.4} = \frac{1.6}{0.4}$$

$$x = 4$$

$$2) w + 14 = -8$$

$$\begin{array}{r} -14 \quad -14 \\ \hline w = -22 \end{array}$$

$$\begin{array}{r} -56 = 20 + j \\ -20 \quad 20 \quad - \\ \hline -76 = j \end{array}$$

$$16 \cdot \frac{9}{16} = 9 \cdot 16 = 144$$

$$\frac{45}{45}$$

$$\left(\frac{5}{9}\right) x = \left(-\frac{10}{9}\right) \left(\frac{9}{5}\right)$$

$$\begin{array}{r} * \left(\frac{7}{3}\right) \left(\frac{3}{7}\right) x = \frac{-21}{1} \left(\frac{1}{3}\right) \\ \hline x = \frac{-147}{3} \\ -49 \end{array}$$

$$x = -\frac{9}{10}$$

$$x = -18$$

1.2 Solving MultiStep Equations

- Distribute Ex $2(3x-1)$ $2(3x) - 2(1) = 6x - 2$
- Combine Like Terms $3y - 5y$ $-2y$
- Undo Add/Sub
- Undo Mult/Div

Ex1

$$2.5x - 13 = 2$$

$$+13 \quad +13$$

$$\frac{2.5x}{2.5} = \frac{15}{2.5}$$

$$x = 6$$

CHECK

$$2.5(6) - 13 = 2$$

$$15 - 13 = 2$$

$$2 = 2 \checkmark$$

Ex2

$$-12 = 9x - 6x + 15$$

$$-12 = 3x + 15$$

$$-15 \quad -15$$

$$\frac{-27}{3} = \frac{3x}{3}$$

$$-9 = x$$

$$x = -9$$

CHECK

$$-12 = 9(-9) - 6(-9) + 15$$

$$-12 = -81 + 54 + 15$$

$$-12 = -27 + 15$$

$$-12 = -12 \checkmark$$

$\frac{-12}{3} = \frac{-36}{3}$

You Try!

$$1) -2n + 3 = 9 \quad 2) -21 = \frac{1}{2}c - 11$$

$$3) -2x - 10x + 12 = 18 \quad 4) 2(1-x) + 3 = -8$$