

Name  
9/12 or 9/13

Algo. I

## Solve Multi-Step Equations

I can solve  
multi-step  
equations.

Example 4:

$$4) \frac{3}{4} (z-6) = 12 \left( \frac{4}{3} \right) \quad \frac{12}{1} \cdot \frac{4}{3} = \frac{48}{3} = 16$$

Ch. 2 Quiz 9/21  
or 9/22 Ch. 1/2

$$z-6 = 16$$
$$\begin{array}{r} z-6 = 16 \\ +6 \quad +6 \\ \hline \end{array}$$

Test 9/23 or 9/26

$$\boxed{z = 22}$$

$$5) \frac{2}{5} (3r+4) = 10 \left( \frac{5}{2} \right) \quad \frac{10}{1} \cdot \frac{5}{2} = \frac{50}{2} = 25$$

$$3r+4 = 25$$

$$\begin{array}{r} 3r+4 = 25 \\ -4 \quad -4 \\ \hline \end{array}$$

$$\frac{3r}{3} = \frac{21}{3}$$

$$\boxed{r = 7}$$

$$6) \frac{4}{5} (4a-1) = 28 \left( \frac{5}{4} \right) \quad \frac{28}{1} \cdot \frac{5}{4} = \frac{-35}{1}$$

$$4a-1 = -35$$

$$\begin{array}{r} 4a-1 = -35 \\ +1 \quad +1 \\ \hline \end{array}$$

$$\frac{4a}{4} = \frac{-34}{4}$$

$$a = -8 \frac{2}{4} = \boxed{-8 \frac{1}{2} \text{ or } -8.5}$$