

### Solving 2-Step Equations (with Groups)

TSE 3

Instructions: Solve each equation.

1  $3(x-5) = 18$

$$\frac{3(x-5)}{3} = \frac{18}{3}$$

*CANCELS* →

$$\cancel{3}(x-5) = 6$$

$$\cancel{+5} \quad | \quad +5$$

$$x = 11$$

3(11-5) = 18  
3(6) = 18  
18 = 18

2  $\frac{5(x+6)}{5} = \frac{40}{5}$

3  $\frac{x+9}{2} = 5$

4  $4\left(\frac{x-15}{4}\right) = (3)4$

*CANCEL* →

$$\frac{x-15}{4} = 12$$

$$\cancel{+15} \quad | \quad +15$$

$$x = 27$$

$\frac{27-15}{4} = 3$   
 $\frac{12}{4} = 3$   
 $3 = 3$

5  $32 = 8(x+1)$

6  $\frac{3+x}{7} = 4$

7  $\frac{x-10}{9} = 7$

8  $6(x-11) = 42$

9  $10(x+2) = 70$

10  $\frac{x+5}{4} = 14$