

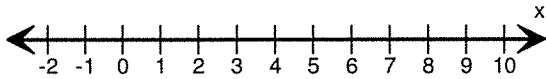
Name: _____

Score: _____

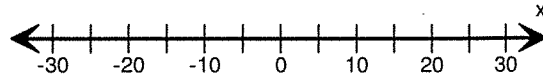
Two-step Inequalities

Solve each inequality and graph the solutions:

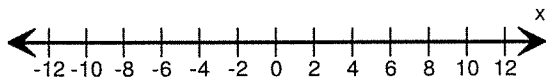
1) $\frac{x-3}{2} < 2$



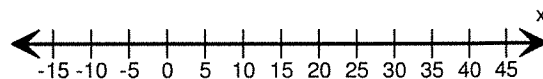
2) $2x - 17 \geq 3$



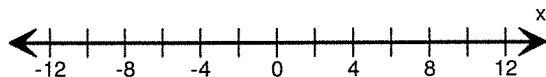
3) $9x + 2 < 20$



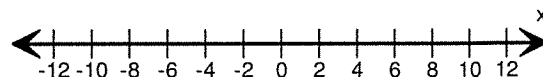
4) $\frac{x}{5} - 3 \leq 2$



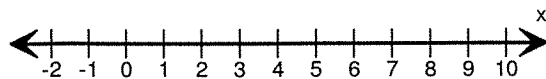
5) $8x - 5 \leq 27$



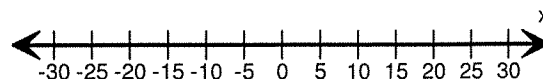
6) $\frac{x}{2} + 2 > 3$



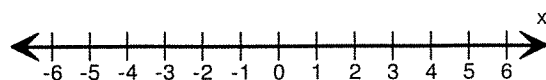
7) $\frac{x-4}{3} < 1$



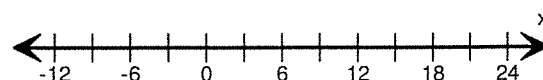
8) $2x + 1 \leq 11$



9) $6x + 4 > 10$



10) $\frac{x}{3} + 1 \geq 5$



Multi-Step Equations—Worksheet #2 EXTRA



Find the ONE mistake that was made in each problem and circle it. Then, describe what kind of mistake it was. Then, fix the mistake and finish the problem to the right.



Joe Schmoe

You

1) $8x - 27 - 10 - 6x = 15$ (equation)

$$2x - 27 - 10 = 15 \quad (\text{equation})$$

$$\begin{array}{r} 2x - 17 = 15 \quad (\text{equation}) \\ \underline{+ 17 + 17} \end{array}$$

$$\begin{array}{r} \underline{2x} = \underline{32} \quad (\text{equation}) \\ 2 \quad 2 \end{array}$$

$$x = 16 \quad (\text{equation})$$

Kind of mistake: _____

2) $-3(2x - 3) = 33$ (equation)

$$\begin{array}{r} -6x + 6 = 33 \quad (\text{equation}) \\ \underline{- 6 \quad -6} \end{array}$$

$$\begin{array}{r} \underline{-6x} = \underline{27} \quad (\text{equation}) \\ -6 \quad -6 \end{array}$$

$$x = -4.5 \quad (\text{equation})$$

Kind of mistake: _____

Multi-Step Equations—Worksheet #2 EXTRA

Silly Sally

You

3) $4(x + 7) = -12$ (equation)

$$\begin{array}{r} 4x + 28 = -12 \\ \underline{-28 \quad -28} \end{array}$$
 (equation)

$$\frac{4x}{4} = \frac{-16}{4}$$
 (equation)

$$x = -4$$
 (equation)

Kind of mistake: _____

4) $-19 + 3x - 11 + 2x = 2$ (equation)

$$5x - 19 - 11 = 2$$
 (equation)

$$\begin{array}{r} 5x - 30 = 2 \\ \underline{-30 \quad -30} \end{array}$$
 (equation)

$$\frac{5x}{5} = \frac{-28}{5}$$
 (equation)

$$x = -5.6$$
 (equation)

Kind of mistake: _____