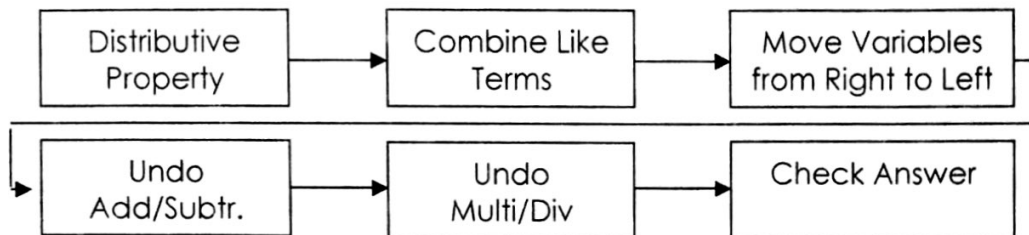


Name: _____ Date: _____

- SOLVE & CHECK EACH EQUATION.
- Be sure to show your steps for solving each problem, line by line
- Watch your signs
- Circle all answers, please!



$$\begin{array}{r}
 1. \quad 15 = t + 18 \\
 \quad -18 \quad -18 \\
 \hline
 \quad -3 = t \\
 \quad \boxed{t = -3}
 \end{array}$$

$$\begin{array}{r}
 2. \quad a - (-4) = -28 \\
 \quad \quad \quad +4 \quad +4 \\
 \hline
 \quad a + 4 = -28 \\
 \quad -4 \quad -4 \\
 \hline
 \quad \boxed{a = -32}
 \end{array}$$

$$\begin{array}{r}
 3. \quad -4y = -64 \\
 \quad \quad \quad -4 \quad -4 \\
 \hline
 \quad \quad \quad y = 16 \\
 \quad \quad \quad \boxed{y = 16}
 \end{array}$$

$$\begin{array}{r}
 4. \quad \frac{x}{6} + 5 = 2 \\
 \quad \quad \quad -5 \quad -5 \\
 \hline
 \quad \frac{x}{6} = -3 \cdot 6 \\
 \quad \quad \quad \boxed{x = -18}
 \end{array}$$

$$\begin{array}{r}
 5. \quad -5x + 6 = -9 \\
 \quad \quad \quad -6 \quad -6 \\
 \hline
 \quad -5x = -15 \\
 \quad \quad \quad -5 \quad -5 \\
 \hline
 \quad \quad \quad \boxed{x = 3}
 \end{array}$$

$$\begin{array}{r}
 6. \quad -10 = 5x - 40 \\
 \quad \quad \quad +40 \quad +40 \\
 \hline
 \quad 30 = 5x \\
 \quad \quad \quad \frac{30}{5} = \frac{5x}{5} \\
 \quad \quad \quad \boxed{x = 6}
 \end{array}$$

$$\begin{array}{r}
 7. \quad y - 2(3y - 2) = -6 \\
 \quad y - 6y + 4 = -6 \\
 \quad -5y + 4 = -6 \\
 \quad \quad \quad -5y = -10 \\
 \quad \quad \quad \quad \quad -5 \quad -5 \\
 \quad \quad \quad \quad \quad \boxed{y = 2}
 \end{array}$$

$$\begin{array}{r}
 8. \quad 4t - 2t + 15 = 41 \\
 \quad \quad \quad 2t + 15 = 41 \\
 \quad \quad \quad \quad \quad -15 \quad -15 \\
 \hline
 \quad \quad \quad 2t = 26 \\
 \quad \quad \quad \quad \quad \frac{2t}{2} = \frac{26}{2} \\
 \quad \quad \quad \quad \quad \boxed{t = 13}
 \end{array}$$

$$\begin{array}{r}
 9. \quad 6x + 14 = 4x - 6 \\
 \quad \quad \quad -4x \quad -4x \\
 \hline
 \quad 2x + 14 = -6 \\
 \quad \quad \quad -14 \quad -14 \\
 \hline
 \quad 2x = -20 \\
 \quad \quad \quad \frac{2x}{2} = \frac{-20}{2} \\
 \quad \quad \quad \boxed{x = -10}
 \end{array}$$

10. Describe in words what is happening in each step.

$3x + 5 = 4x + 6$	
$3x - 4x + 5 = 4x - 4x + 6$	Move variables to the left
$-x + 5 = 6$	Combine like terms
$-x + 5 - 5 = 6 - 5$	Undo addition (subtract)
$-x = 1$	Combine like terms
$\frac{-x}{-1} = \frac{1}{-1}$	Undo multiplication (divide)
$x = -1$	