

NAME: KEY

PER: _____

SOLVING EQUATIONS (Station)

NOTES:

Write the steps for solving equations.

1. Distribute
2. Combine Like Terms
3. Isolate the Variable

What operation are you doing when you distribute?

multiplying

PRACTICE:

SOLVE THE FOLLOWING EQUATIONS

1. $4x - 40 = -2(x - 4)$

$$4x - 40 = -2x + 8$$

$$\frac{6x}{6} = \frac{48}{6}$$

$$\boxed{x = 8}$$

2. $x + 7 = 13 + 7x$

$$\frac{-6x}{-6} = \frac{6}{-6}$$

$$\boxed{x = -1}$$

3. $x + 2 = -14 - x$

$$\frac{2x}{2} = \frac{-16}{2}$$

$$\boxed{x = -8}$$

4. $28 + 7x = -8(x + 4)$

$$28 + 7x = -8x - 32$$

5. $-8x - 4(-1 - 5x) = -2(3x - 7)$

$$-8x + 4 + 20x = -6x + 14$$

$$12x + 4 = -6x + 14$$

$$18x + 4 = 14$$

$$\frac{18x}{18} = \frac{10}{18}$$

$$\boxed{x = \frac{10}{18}}$$