

Warm-up ~ Solve AND Check

1. $5x + 2 = 27$

2. $0.6x - 1.5 = 1.8$

3. $16 = \frac{d - 12}{14}$

4. $-4 = \frac{7x - (-1)}{-8}$

Warm-up ~ Solve AND Check

1. $5x + 2 = 27$

$$5x + 2 - 2 = 27 - 2 \text{ (subt. prop. } \Rightarrow)$$

$$5x = 25$$

$$\frac{5x}{5} = \frac{25}{5} \text{ (div. prop. } \Rightarrow)$$

$$x = 5$$

Check:

$$5x + 2 \stackrel{?}{=} 27$$

$$5(5) + 2 \stackrel{?}{=} 27$$

$$25 + 2 = 27$$

$$\checkmark 27 = 27$$

2. $0.6x - 1.5 = 1.8$

$$0.6x - 1.5 + 1.5 = 1.8 + 1.5 \text{ (add. prop. } \Rightarrow)$$

$$0.6x = 3.3$$

$$\frac{0.6x}{0.6} = \frac{3.3}{0.6} \text{ (div. prop. } \Rightarrow)$$

$$x = 5.5$$

$$0.6x - 1.5 = 1.8$$

$$0.6(5.5) - 1.5 = 1.8$$

$$3.3 - 1.5 = 1.8$$

$$\checkmark 1.8 = 1.8$$

3. $16 = \frac{d - 12}{14}$

$$14 \cdot 16 = \frac{d - 12}{14} \cdot 14 \text{ (mult. prop. } \Rightarrow)$$

$$224 = d - 12$$

$$224 + 12 = d - 12 + 12 \text{ (add. prop. } \Rightarrow)$$

$$236 = d$$

$$14 - 4 = \frac{7x + 1}{-8}$$

$$\text{(mult. prop. } \Rightarrow) \quad -8 \cdot -4 = \frac{7x + 1}{-8} \cdot -8$$

$$32 = 7x + 1$$

$$32 - 1 = 7x + 1 - 1 \text{ (subt. prop. } \Rightarrow)$$

$$31 = 7x$$

$$\text{(div. prop. } \Rightarrow) \quad \frac{31}{7} = \frac{7x}{7} \quad \frac{31}{7} = x$$

4. $-4 = \frac{7x - (-1)}{-8}$

House Keeping Items -

- 1) Everyone make sure you turned in the one-step equation puzzle
- 2) Make sure you copied the notes for two-step equations
- 3) Make sure you completed the crossword puzzle for CW yesterday
- 4) Work on the Maze
- 5) We will do a kahoot as a class to practice

HW Two-Step Equations Worksheet Evens