7.5 Division Equation (6.EE.5 and 6.EE.7)

Vocabulary

Multiplication Property of Equality – If you __multiply__ each side of an equation by the same number, the two sides remain equal.

Guided Practice:
Solve each equation. Check your solution.

$$\begin{array}{r} 14 \\ \times 13 \\ \hline 42 \\ +140 \\ \hline 182 \end{array}$$

1.) $\dfrac{m}{6} = 10$

$$m \div 6 = 10$$
$$\cdot 6 \quad \cdot 6$$
$$\boxed{m = 60}$$

2.) $\dfrac{k}{5} = 11$

$$k \div 5 = 11$$
$$\cdot 5 \quad \cdot 5$$
$$\boxed{k = 55}$$

3.) $\dfrac{v}{13} = 14$

$$v \div 13 = 14$$
$$\cdot 13 \quad \cdot 13$$
$$\boxed{v = 182}$$

4.) Kerry and Tya are sharing a pack of stickers. Each girl gets 11 stickers. <u>Write and</u> <u>solve a division equation to find how many total stickers there are.</u>

$$t \div 2 = 11$$
$$\cdot 2 \quad \cdot 2$$
$$\boxed{t = 22 \text{ stickers}}$$

5.) Chen is buying a ham. He wants to divide it into 6.5-ounce servings for 12 people. <u>Write and solve a division equation to find what size ham Chen should buy.</u>
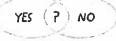
$$h \div 6.5 = 12$$
$$\cdot 6.5 \quad \cdot 6.5$$
$$\boxed{h = 78.0 \text{ ounce ham}}$$

$$\begin{array}{r} 12 \\ \times 6.5 \\ \hline 60 \\ +720 \\ \hline 78.0 \end{array}$$

Partner Talk: Solve $\quad 17 = \dfrac{w}{6}$

$$17 = w \div 6$$
$$\cdot 6 \quad \cdot 6$$
$$\boxed{102 = w}$$

Building on the Essential Question - When solving an equation, why is it necessary to perform the same operation on each side of the equal sign?

✱ so both sides remain equal

Rate Yourself – Are you ready to move on? Shade the section that applies.

YES (?) NO ← Rate yourself!