

7.4 Multiplication Equation (6.EE.5, 6.EE.7, and 6.RP.3)

Vocabulary

Division Property of Equality - If you divide each side of an equation by the same number, the two sides remain equal.

Guided Practice:
Solve each equation.

1.) $2a = 6$
 $\div 2 \quad \div 2$

$a = 3$

2.) $20 = 4c$
 $\div 4 \quad \div 4$

$5 = c$

$9.4 \overline{) 28.2}$
3
28.2
-28.2
0

3.) $9.4g = 28.2$
 $\div 9.4 \quad \div 9.4$

$g = 3$

4.) ~~The length of an object in feet is equal to 3 times its length in yards.~~ The length of a waterslide is 48 feet. Write and solve a multiplication equation to find the length of the waterslide in yards.

$48 = 3 \cdot y$
 $\div 3 \quad \div 3$

$16 = y$
yards

5.) The total time to burn a CD is 18 minutes. Last weekend, Demitri spent 90 minutes burning CDs. Write and solve a multiplication equation to find the number of CDs Demitri burned last weekend. Explain how you can check your solution.

$18 \cdot c = 90$
 $\div 18 \quad \div 18$

$c = 5$ cds

Partner Talk: Solve

$1.5x = 3$
 $\div 1.5 \quad \div 1.5$

$x = 2$

Building on the Essential Question - How can the Division Property of Equality be used to solve multiplication equations?

If you divide each side of an equation by the same number, both sides remain equal.

Rate Yourself - How well do you understand solving and writing multiplication equations? Circle the image that applies.

Clear

Somewhat Clear

Not So Clear