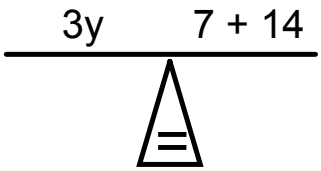
FIND THE VALUE FOR A LETTER IN AN EQUATION

Anytime you see a letter right next to a number it means you are multiplying the number and the letter.

$$3y = 7 + 14$$

$$3y = 21$$

$$y = 7$$



First: Simplify anything you can. In this case we can take 7 + 14 to simplify the right side of the equation. Then write the answer and copy everything else down like you see it.

Then ask yourself "3 times what number equals 21"?

Finally, you will realize that 7 is the only number that can make this equation balanced or worth the same value on both sides, so y = 7.

FIND THE VALUE FOR TWO OF THE SAME LETTER IN AN EQUATION

$2 + r = 15 / r$ r = ____

5 5

7 ≠ 3

We have to find a number that we can substitute for "r" on both sides of the equal sign and it needs to be the same number. Let's just pick any number and try it.

First we try 5 because we know 15 / 5 equals an even 3. But when we try 5 on the other side we have 2 + 5 = 7. 7 does not equal 3 so r can't equal 5.

Next, we try substituting 3 in for "r" on both sides.

$2 + r = 15 / r$ r = ____

3 3

5 = 5

This does work because 2 + 3 = 5 and 15 / 3 = 5, so we know that r = 3.

Attachments

GraphingCoordinatePlaneQuad1.png