

SAMPLE

Test Rewrite

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Period 3A

Test Name Unit 1 Test

Problem # 6

1. Complete explanation of what I did wrong on this problem:

I combined like terms across an equal sign instead of using properties of equality to isolate my variable.

2. Detailed explanation of the correct solution. Be sure to explain your reasoning and what you know about the underlying concepts.

First we must use the Distributive Property to multiply 2 to each term in the parenthesis. Now I can start to isolate my variable so I will add six to both sides using the Addition Property of equality. This way the -6 and the +6 will cancel to zero, leaving me with $2x = 21$. Next I use the Division Property of Equality to divide 2 on both sides so that "x" is left with a coefficient of 1, meaning it is isolated.

3. Correct solution to the problem, *with all my work shown*. Leaving the final answer to be $x = \frac{21}{2}$ or 10.5.

$$2(x - 3) = 15$$

$$\begin{array}{r} 2x - 6 = 15 \\ +6 \quad +6 \\ \hline 2x = \frac{21}{2} \end{array}$$

$x = \frac{21}{2} \text{ or } 10.5$

4. What will I do to ensure I do not make the same error again?

I will draw a line over my equal sign so that I can see the two different sides more clearly.