

Solving Fractional Equations Common Core Algebra 2 Homework

-5x - 4 = 46	Original Problem
-5x <mark>- 4</mark> = 46	We want to remove the 4 first.
-5x - 4 <mark>+ 4</mark> = 46 <mark>+4</mark>	STEP 1: Since the original equation is minus 4, we are going to use the opposite operation and add 4 to BOTH sides.
-5x = 50	Simplify4 + 4 = 0 on the left. 46 + 4 = 50 on the right. Then we need to think about how to remove the coefficient -5.
<u>-5x</u> = <u>50</u> <u>-5 -5</u>	STEP 2: Since the opposite of multiplication is division, I am going to divide BOTH sides by -5.
x = -10	Simplify. $-5/-5 = 1$ on the left. $50/-5 = -10$ on the right, so our answer is $x = -10$.
Check: -5x - 4 = 46 -5(-10) - 4 = 46 50 - 4 = 46	Since this is a true statement, our answer of $x = -10$ is correct.

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