1st Nine Weeks Equations Project

Period:6th

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Group Names:

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Introduction

Objective: We will be creating a Google Presentation to demonstrate conceptual knowledge of writing and solving equations. We will use knowledge gained in the first nine week period, including properties of real numbers and properties of equality.

An equation says that two things are equal.

Solving The Equations

In our first lesson we will learn how to solve an Equation then we will learn how to write the actual Equation.

1) $4x = \frac{2}{5}$

Since we have a whole number and a fraction we have to use the multiplicative inverse and we would usually get $4x = \frac{2}{5} \times 4/1$ but in this case since we're multiplying and not dividing we have to flip the inverse to get $\frac{2}{5}$ times $\frac{1}{4}$ and that comes out to be x= 1/10.

Solving Equations

$x - \frac{1}{4} = \frac{2}{5}$

First you will use addition property of equation. You will add ¼ to both sides so so it will turn out to be x= 13/20 and that will be the answer.

Solving Equations

$15-\frac{2}{3}x=20$

The first step you will use subtraction property of equality. You will subtract 15 to both sides and it comes out to be 2/3x=20. Divide ⅔ but you would use the reciprocal to both sides and that comes out to be x=30

Solving Equations

5-2(x-3)=-23

First you will use distributive property of equation to get 3x-9=-23. Then you will add nine to both sides so you will get 3x= -14. Then you will division property of equation and divide -14 by 3 and the answer will be 4.7.

Writing Equations

John had 7 cokes he gave 4 to his friends, John bought 2 more all of the cokes cost 12 in all. How much did each coke cost?

7c-4+2=12

First, we must take the negative 4 and add 4 to it so now we have to also add 4 and 12 and we get 16 so now our equation is 7c+2=16 so now we take the positive 2 and subtract 2 from it and once again 16-2= 14 and we have 7c=14 and we take 7/7 and 14/7 so our equation equals out to be 2!