EQUATIONS PROJECT. OCTOBER 9,2015

5TH PERIOD

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INTRODUCTION

Objective:

To demonstrate our understandings of writing and solving equations.

Equation:

a statement that the values of two mathematical expressions are equal (indicated by the sign =).

MULTIPLICATIVE INVERSE

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

$$4 = 4$$

$$x = 1/10$$

To solve this equation you are going to separate the variable from 4 so divide each side by 4. since you're dividing by a fraction you put the 4 over a one and change the

$$\frac{2}{5} \div \frac{4}{1} \supset \frac{2}{5} \times \frac{1}{4} = \frac{2}{20} \cdot \frac{1}{10}$$

ADDITION PROPERTY OF EQUALITY

$$|x-1/4| = \frac{2}{5}$$
 $|+1/4| + \frac{1}{4}$
 $|x| = \frac{13}{20}$

To solve this equation the first thing you are going to want to do is add ¼ to both sides of the equation separating the variable from any numbers, then you will add % and ¼ together and get the answer to your problem.

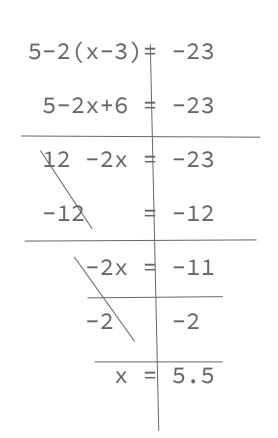
$$\frac{2}{5} \div \frac{1}{4} = \frac{8}{20} \div \frac{5}{20} = \frac{13}{20}$$

SUBTRACTION PROPERTY OF EQUALITY AND MULTIPLICATIVE INVERSE.

To solve this equation you will have to, first subtract 15 from both sides. So that the 15 equals out (this is subtraction of equality) and now the equation is $-\frac{2}{3} = 5$. then you flip $-\frac{2}{3}$ to $-\frac{3}{2}$ and multiply it on both sides, so -2/3 times -3/2 which equals out and then 5 times -3 /2.(this is multiplicative inverse) and the answer is

x = 7.5

DISTRIBUTIVE PROPERTY AND DIVISION PROPERTY OF EQUALITY.



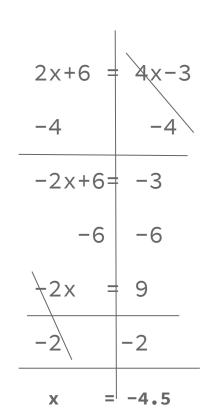
To solve this equation first you have to multiply 2 times x in the parenthesis then multiply 2 times 3 in the parenthesis this is distributive property). So you have 5-2x+6=-23.

next you add 5 plus 6, so now the equation is

12 -2x= -23. Then you subtract -12 from both sides, the 12 equals out and -23 - -12 equals -11.

now the equation -2x = -11, so you divide -2 from -2 now the -2 equals out and -11 divided by -2 equals 5.5 (this is division property of equality. so the answer is x = 5.5

Larry and Mike collect baseball cards, larry has 6 cards already and earns 2 per week and Mike earns 4 per week, and owes larry 3 cards how many weeks until they have the same amount of cards?



To solve this equations first you would subtract 4 from each variable on both sides so that the variable is on the left and the (4x) equals out. Then you would subtract 6 from each side. 6 equals out and you subtract -6 from -3 (this is subtraction of equality.) Now your equation is -2x=9. Next you divide -2 by -2 and that equals out then you divide 9 by -2 (this is division of equality) and the answer is x = -4.5