MATH NINE WEEK PROJECT

October 9,2015
4th period
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INTRODUCTION

 The knowledge from the past few weeks will be expressed and explained in the next few slides. Definitions of vocabulary and explanations how to solve equations.

 Equation- Solving the equation consists of determining which values of the variable make the equality true.

MULTIPLE INVERSE OF A NUMBER

• multiplicative inverse- the reciprocal of x is 1/x. In other words, a reciprocal is a fraction flipped upside down. which is the steps of multiplicative inverse

$$4x = \frac{2}{5}$$
step one: divide by 4 and flip

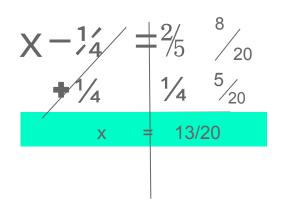
$$4 \quad 1 \quad 2 \quad \text{step two: change signs and multiply}$$

$$1 \quad \text{step 3: reduce} \quad 2$$

$$1 \quad 10$$

ADDITION PROPERTY OF EQUALITY

 The formal name for the property of equality that allows one to add the same quantity to both sides of an equation. This, along with the multiplicative property of equality, is one of the most commonly used properties for solving equations.

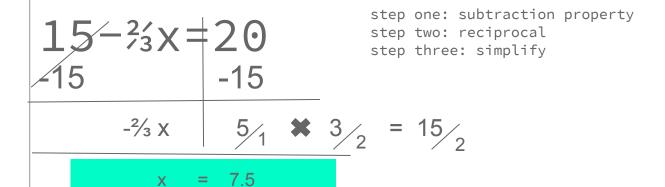


step one: make even dominators

step two: simplify

SUBTRACTION PROPERTY OF EQUALITY AND MULTIPLICATIVE

- States that when both sides of an equation have the same number subtracted from them the remaining expressions are still equal.
- multiplicative inverse- the reciprocal of x is 1/x. In other words, a reciprocal is a fraction flipped upside down. which is the steps of multiplicative inverse



DISTRIBUTIVE PROPERTY AND DIVISION PROPERTY OF EQUALITY

- multiply a single term and two or more terms inside a set of parentheses.
- divide both sides of an equation by the same nonzero number, the sides remain equal.

$$5-2(x-3)=-23$$

5-2x-6=-23

step one: distribute

step two: 5-6

step three: do the opposite operation on both

sides

step four: divide

$$2x-1=-23$$
 $-23+1=-22$

MULTI-STEP EQUATIONS

Paige went to the movies, she bought 5 boxes of candy and bought a drink for \$7 for a large coke. Her total when checking out was \$22. Find X the amount each box of candy.