



Math project

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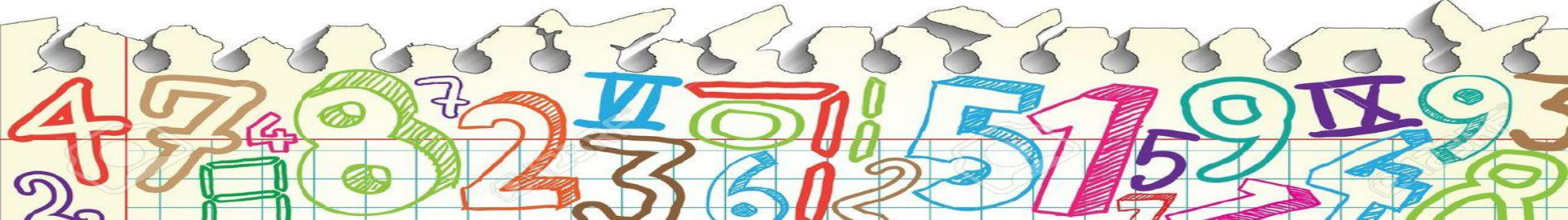
Class: 5



THE PURPOSE



The purpose of this short presentation is to help you solve multi-step equations. The objective of this presentation is to help people solve 1 step, 2 step and 3 step equations with ease.



SOLVING EQUATIONS

Example 1: $4x = \frac{2}{5}$

$$\frac{4}{4} \cdot \frac{2}{5} = \frac{40}{100} \text{ divided by } 4 = 10.$$

Step 1: Move whatever is by the x. Do the {multiplicative inverse} for example; 4 is by x and it's multiplying. so you would divide by 4 on both sides. so: $\frac{4}{4} = \frac{2}{5} / 4$.

It helps me to make the fraction over 100 then divide the top number by the whole number. So that would =10 and the 4s cancel out And so 10 is your answer.

SOLVING EQUATIONS

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

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

Step 1: Keep the one fraction on the right side of the equal sign. but! you have to get rid of the one on the left side because the variable is not attached to it. You have to use the addition {property of equality}. you would NOT flip it. You have to find a common denominator.

Step 2: $\frac{2}{5} + \frac{1}{4}$ common denominator is going to be 20 so multiply $\frac{2}{5}$ by 4 and $\frac{1}{4}$ by 5... you will get- $\frac{8}{20} + \frac{5}{20} = \frac{13}{20}$ this will be your answer because you cannot simplify it anymore.

SOLVING EQUATIONS

STEP 1: SET UP THE PROBLEM, AND MAKE SURE THAT YOU HAVE THE VARIABLE LOCKED UP BY ITSELF.

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

STEP 2: ADD OR SUBTRACT THE NUMBER BY THE VARIABLE THEN DO THE SAME TO THE NUMBER ON THE OTHER SIDE OF THE EQUAL SIGN.

STEP 3: GET THE SUM OR THE DIFFERENCE OF BOTH NUMBERS AND BRING THEM DOWN...ALSO BRING DOWN THE VARIABLE AND MULTIPLY OR DIVIDE TO GET THE VARIABLE.

SOLVING MORE EQUATIONS

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

$$25 = -2x$$

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

$$\underline{-2 \quad -2}$$

$$\underline{-5} \quad \underline{-5}$$

$$x = -12.5$$

$$\underline{-28}$$

$$\underline{+3}$$

$$\underline{25}$$



EXPLAINING THE QUESTION

THE PROBLEM TELLS YOU WHAT IT WANTS YOU TO DO...IT ALSO TELLS YOU HOW TO ANSWER THE PROBLEM.

EXAMPLE: THE CAR DROVE 60 MILES. IT GOES 80 MILES PER HOUR IF IT TAKES HIM 2 HRS, HOW FAST IS THE CAR GOING TO REACH THE HOUSE.



QUESTIONS AND EXPLANATIONS

solve the problems

1.) $6x+95=109$

2.) $6x=-48$

3.) $\frac{2}{3}x+1=-2+1$

Its simple they all have something in common,they all use solving equations!

This is one of the easiest topics to use so have fun with it...learn how to sharpen your skills on this topic.