Math Warm Up

Write the problem AND answers in the table below.

Monday	My Thinking	Correct/Compare
Subtract three from any number		
Divide two by any number		

Math Warm Up

Write the problem AND answers in the table below.

× - 3
2 ×
•

Objective

TSW solve linear equations with one variable by adding, subtracting, multiplying and dividing on both sides of the equal sign.



Linear equations
can be used to solve
mathematical and realworld problems. A linear
equation with one variable
can have one solution, no
solution, or infinitely many
solutions.

 Common Core State Standards 8.EE.7 Solve linear equations with one variable

8EE 7 Solve linear equations in one variable.

8EE 7a Give examples of linear equations in one variable with one solution, infinity many solutions, or no solutions

8EE 7b Solve linear equations with rational number coefficients

 Mathematical Practices 1 Solve problems/persevere 2 Reason 4 Model Mathematics 7 Look for and use structure

$$\frac{2(x+3)-5}{3} = 5$$

Solve for X

You were able to create equations by adding, subtracting, multiplying and dividing on BOTH sides of equal sign.

Then, you checked your work through substitution.

Today, you are going to solve for X

*What operation is furthest away from the variable?

*What is the inverse operations? (opposite)

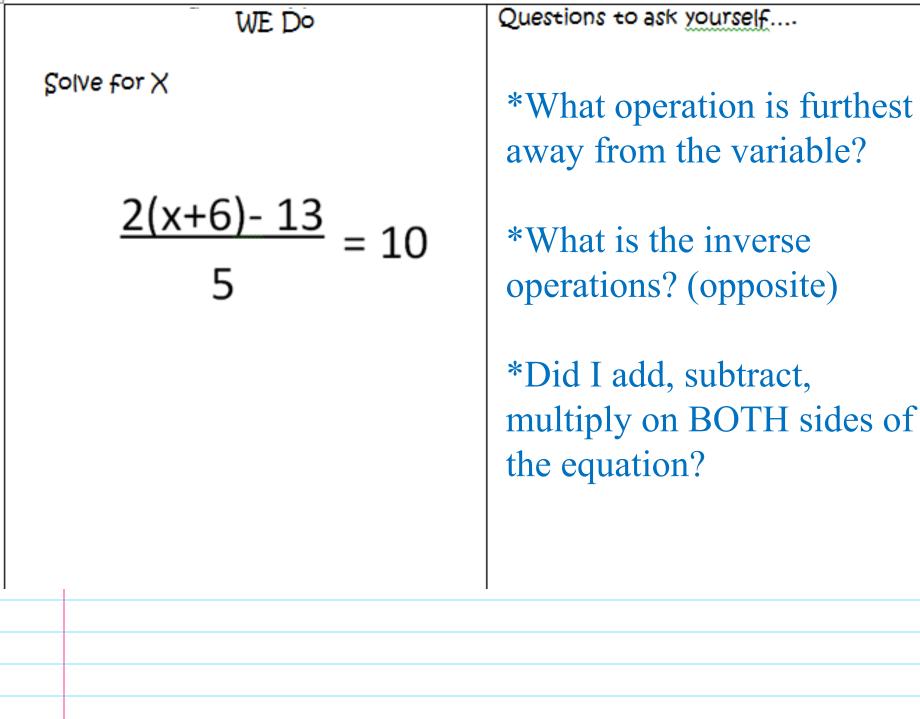
*Did I add, subtract, multiply on BOTH sides of the equation?

Substitute the value of X to see if correct

$$\frac{2(x+3)-5}{3} = 5$$

X=

Check:



Substitute the value of X to see if correct

Equation
$$\frac{2(x+6)-13}{5}=10$$

X=

Check:

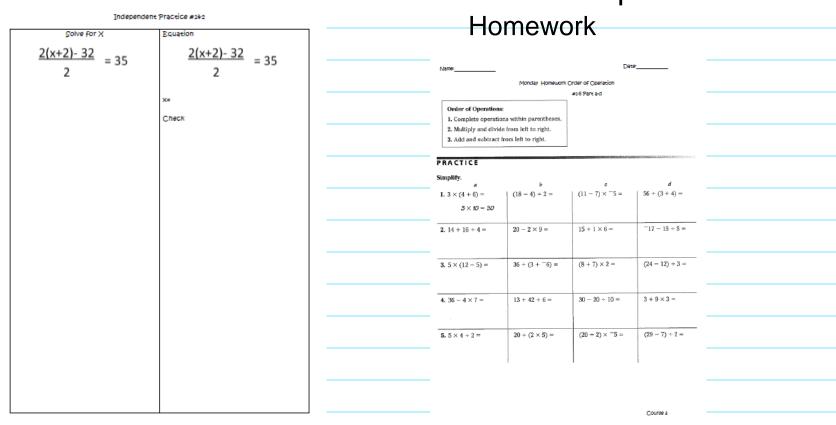
$$\frac{2(x+25)-15}{9}=5$$

YOU DO

Questions to ask yourself....

- *What operation is furthest away from the variable?
- *What is the inverse operations? (opposite)
- *Did I add, subtract, multiply on BOTH sides of the equation?

Independent Practice #1 & 2 Challenge- Solve created equation



Lesson Check —#2 Solve linear equation with one variable