# Lesson 3.1 Solving Linear Equations with one Variable (Day 3) 

Math Warm Up
Write the problem AND answers in the table below.

| Monday <br> Subtract three from any <br> number | My Thinking | Correct/Compare |
| :--- | :--- | :--- |
| Divide two by any number |  |  |

# Lesson 3.1 Solving Linear Equations with one Variable (Day 3) 

Math Warm Up
Write the problem AND answers in the table below.

| Monday | My Tninking | Correct/Compare |
| :--- | :---: | :---: |
| Subtract three from any <br> number | $x-3$ |  |
| Divide two by any number |  | $\frac{2}{x}$ |

## Lesson 3.1 Solving Linear Equations with one Variable (Day 3)

## 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


## Lesson 3.1 Solving Linear Equations with one Variable



Today, you are going to solve for X

Solve for $X$
$\underline{2(x+3)-5}=5$ 3

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?

## Lesson 3.1 Solving Linear Equations with

 one VariableSubstitute the value of
X to see if correct

$$
\begin{aligned}
& \text { Equation } \\
& \qquad \frac{2(x+3)-5}{3}=5 \\
& x= \\
& \text { Check: }
\end{aligned}
$$

WE DO
Solve for $X$

## $\underline{2(x+6)-13}=10$ <br> 5

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?

Lesson 3.1 Solving Linear Equations with one Variable

Substitute the value of
X to see if correct

Equation

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

$x=$

Check:

Solve for $x$

## $\underline{2(x+25)-15}$

Questions to ask yourself.... YOU DO
*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?

## Lesson 3.1 Solving Linear Equations with one Variable (Day 3)

Independent Practice \#1 \& 2 Challenge- Solve created

Name:

equation
Homework


Lesson Check - \#2 Solve linear equation with one variable

