## Math 7

Solving 1-Step Equations

By the end of this lesson you will be able to $\qquad$ -

Example 1 - Which of the following equations are true?
What is an equation? - $\qquad$
What does it mean for an equation to be true? $\qquad$
Create three equations that are true.

1) $\qquad$ 2) $\qquad$ 3) $\qquad$

Example 2 - Solve for the variable $x$ in the equation.

$$
3+x=29 \quad \text { What do I need to do? }
$$

$\qquad$ 1. $\qquad$
2. $\qquad$

Example 3-Solve for the variable $x$ in the equation.

$$
x-12=-15 \quad \text { What do I need to do? }
$$

$\qquad$ 1. $\qquad$
2. $\qquad$

Example 4-Solve for the variable $x$ in the equation.

$$
-3 x=-18 \quad \text { What do I need to do? }
$$

1. $\qquad$
2. $\qquad$

Example 5 - Solve for the variable $\boldsymbol{x}$ in the equation.

$$
\frac{x}{7}=21 \quad \text { What do I need to do? }
$$

1. 
2. $\qquad$

What operation will you need to do in order to solve for the variable in each equation below? What will the solution for $x$ be?

1) $\frac{x}{9}=3$
2) $11+x=6$
3) $12 x=144$
4) $x \quad 32=9$

## SHOWTIME - You Try!

Which of the following values for $x$ will satisfy the equation $4 x+2=-x+17$
a) $x=-3$
b) $x=2$
c) $x=3$
d) $x=4$

Solve for the variable $x$ in each equation. Make sure to check your work

1) $x \quad 31=55$
2) $15 x=60$
3) $10+x=19$
4) $\frac{x}{4}=8$
