

You need out your agenda & warm up

## Homework: One Step Equations

Warm Up:

1)  $x + 2.5 = 8$  <sup>copy cat</sup>

$$\begin{array}{r} \cancel{x + 2.5} = \cancel{8} \\ \hline x = 5.5 \end{array}$$

2)  $p - 23 = 45$  <sup>copy cat</sup>

$$\begin{array}{r} \cancel{p - 23} = \cancel{45} \\ \hline p = 68 \end{array}$$

**ONE-STEP EQUATIONS**

**GOAL:** to get the variable by itself

**MOVE THINGS...** away from the variable

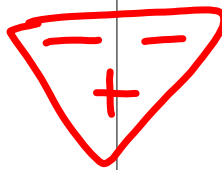
\*What u do to 1 side, u must do to other.

**I DO THIS BY...** using Inverse operations

Addition:	Subtraction:
What is the inverse operation? <b>subtract</b>	What is the inverse operation? <b>add</b>
$x + 5 = 15$ <del>-5</del>   -5 <hr/> <b>x = 10</b>	$x - 10 = 12$ <del>+10</del>   +10 <hr/> <b>x = 22</b>

+   -

<p style="text-align: center;"><b>Multiplication:</b></p> <div style="border: 1px solid black; padding: 5px; text-align: center;">             What is the inverse operation?  <span style="font-size: 1.5em; color: green;">divide</span> </div> <div style="text-align: center; margin-top: 10px;"> <math display="block">\begin{array}{r} \cancel{3} \times 15 \\ \hline \cancel{3} \mid 3 \\ \hline \boxed{\cancel{x} = 5} \end{array}</math> </div>	<p style="text-align: center;"><b>Division:</b></p> <div style="border: 1px solid black; padding: 5px; text-align: center;">             What is the inverse operation?  <span style="font-size: 1.5em; color: green;">multiply</span> </div> <div style="text-align: center; margin-top: 10px;"> <del> <math display="block">\frac{2}{1} \times \frac{1}{2} x = 10 \cdot \frac{2}{1} = 20</math> </del>   <math display="block">\boxed{x = 20}</math> </div>
--	---



One-Step Equations with Integers:

1)  $x + 4 = -7$

<del>-4</del>	-4
$x = -11$	

+	-
7	4

2)  $x - 12 = -30$

<del>+12</del>	+12
$x = -18$	

+	-
12	30

$$3) \frac{4x}{4} = \frac{-16}{4} \quad \leftarrow \text{div}$$
$$x = -4$$

$$4) \frac{4}{5}x = -2 \quad \leftarrow \text{div}$$
$$\frac{5}{4} \cdot \frac{4}{5}x = \frac{-2}{1} \cdot \frac{5}{4}$$
$$x = \frac{-10}{4}$$

HW tonight:

5)  $x + 9 = -12$

6)  $x - 8 = -18$

7)  $-2x = 20$

8)  $\frac{2}{6}x = -3$

- 9) Teddy earns \$9 an hour coaching a football camp. Last Saturday, he earned \$63. Write the equation to determine how many hours  $h$  he worked.
- 10) Max earns 4 dollars an hour mowing lawns. If he earned 36 dollars last Monday, write the equation to determine how many hours  $h$  he worked.