Math 60,	Section	2.5-2.6	Class Prep	o Assignment
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Name:_____

Watch the videos and take notes on this page

Due at the Beginning of Next Class

Section 2.5 Solving One-Step Equations

Solving an equation means finding the value that makes the equation ______. We write the **solution set** in set brackets.

Equations with Addition and Subtraction

1. Find the missing value.

a. x+3=7 b. 6=x+1

Opposite Operations

2. Solve the following equations, showing your operations. State the solution set and check your answer.

a. x - 4 = 1 b. 6 = -4 + x

c.
$$z - (-2) = -7$$
 d. $-\frac{1}{2} = x - \frac{3}{4}$

Equations with Multiplication and Division

3. Find the missing value.

a.
$$3x = 6$$
 b. $2 = 2t$

Opposite Operations

4. Solve the following equations, showing your operations. State the solution set and check your answer.

a. 3p = -6 b. -z = 28

c.
$$\frac{3}{4}x = 10$$
 d. $\frac{x}{7} = 3$

Section 2.6 Solving One-Step Inequalities

5. Do the opposite operations also work with inequalities? Let's do a test:

Add a number to each side

Subtract a number from each side

Multiply each side by a positive number

Multiply each side by a negative number

Summary for solving inequalities:

6. Solve each inequality and graph each solution on a number line. Write the solution set in interval and set-builder notation.

Solve the Inequality	Number Line Graph	Interval	Set-builder Notation
a. $x+3>9$			
b. $t - 6 \le 8$			
$c = 6 > \frac{2}{r}$			
C. 07 7 7			
$d \rightarrow 2r > 21$			
$\mathbf{u}. -3x \ge -21$			