

## Unit 3 Inequality Intro

### Inequality:

$>$	$\geq$	$<$	$\leq$

*Example 1: Fill in the correct blanks*

1.  $6 \underline{\hspace{1cm}} 10$

2.  $11 \underline{\hspace{1cm}} 21$

3.  $0 \underline{\hspace{1cm}} 6$

4.  $3 \underline{\hspace{1cm}} -5$

**You Try... DO NOT START UNTIL MS.N TELLS YOU!**

$8 \underline{\hspace{1cm}} -2$	$2 \underline{\hspace{1cm}} 7$	$1 \underline{\hspace{1cm}} 2$	$-3 \underline{\hspace{1cm}} 8$
$10 \underline{\hspace{1cm}} -5$	$60 \underline{\hspace{1cm}} 70$	$-11 \underline{\hspace{1cm}} -50$	$12 \underline{\hspace{1cm}} 11$
$3 \underline{\hspace{1cm}} -8$	$6 \underline{\hspace{1cm}} 12$	$-6 \underline{\hspace{1cm}} 12$	$0 \underline{\hspace{1cm}} -9$
$7 \underline{\hspace{1cm}} -5$	$7 \underline{\hspace{1cm}} 10$	$1 \underline{\hspace{1cm}} -8$	$12 \underline{\hspace{1cm}} -7$

*Example 2: Write the sentence as an inequality*

1. A number  $x$  is greater than 3

2. A number  $n$  plus 7 is less than or equal to 9.

*You Try... Write the sentence as an inequality*

1. three times a number  $w$  is less than 18

2. A number  $x$  is greater than or equal to 8

*Example 3: Tell whether the value is a solution of the inequality.*

1.  $y > 12$ ;  $y = 2$

2.  $w \geq -4$ ;  $w = -4$

3.  $x + 2 \leq 10$ ;  $x = 9$

*You Try....Tell whether the value is a solution of the inequality.*

1.  $z < 9$ ;  $z = -3$

2.  $w - 7 \geq 20$ ;  $w = 50$

3.  $2x \leq 8$ ;  $x = 6$

*Exit Ticket:*

Write the sentence as an inequality

*A number  $y$  is less than or equal to 12.*

Tell whether the value is a solution of the inequality

$y - 10 > 4$ ;  $y = 6$