Name_____ Date_____ Period_____

LESSON 8-5 · SESSION 1 · PREREQUISITE PRACTICE B · SKILL 1 OF 2

Compare Numbers on a Number Line

Builds on Lesson 7-4 Session 1 · 6.NS.C.7a

TODAY'S LESSON	You will graph $x \geq -3$ and decide which way the arrow points.
YOU NEED TO	Tell which of two numbers is greater, like $-1 > -3$. **You will use it in Practice Form A, problems 1 and 6.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Find** both numbers on the number line.
2. The number farther **right** is greater.
3. Write **<** or >. The symbol opens toward the greater number.

WATCH ME

the steps in action

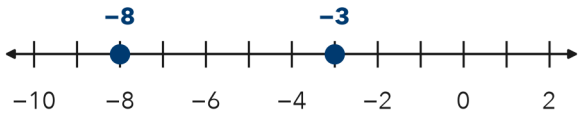
−8 ___ −3

Step 1 Find −8 and −3 on the line.

Step 2 −3 is farther right, so −3 is greater.

Step 3 −8 < −3

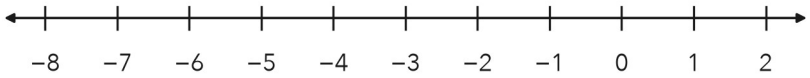
Answer **−8 < −3**



TRY IT WITH HELP

fill in each step

1. −1 ___ −6



Step 1 Find −1 and _____ on the line.

Step 2 _____ is farther right, so it is greater.

Step 3 −1 _____ −6

2. 0 ___ −4

Step 1 Find 0 and _____ on the line.

Step 2 _____ is farther right, so it is greater.

Step 3 0 _____ −4

YOUR TURN

use the steps on your own

3. Write < or >.

a. −3 _____ 1

b. −8 _____ −7

c. −12 _____ −15

d. 6 _____ −9

e. −4 _____ 4

f. −2 _____ −5

Write Inequalities from Words

Builds on Lesson 8-4 Session 1 · 6.EE.B.8

TODAY'S LESSON	You will turn "at least 15 pounds" into $w \geq 15$ and graph it.
YOU NEED TO	Change a phrase like "at most 8" into $t \leq 8$. **You will use it in Practice Form A, problems 2, 3, 5, and 8.**

STEPS TO FOLLOW

use these same steps on every problem

1. Find the **phrase**: at least, at most, more than, or under.
2. Pick the **symbol**: at least ≥, at most ≤, more than >, under <.
3. Write the **letter**, then the symbol, then the number.

WATCH ME

the steps in action

A tent holds at most 6 campers. Use *c*.

Step 1 The phrase is "at most."

Step 2 "At most" means ≤.

Step 3 $c \leq 6$

Answer $c \leq 6$

TRY IT WITH HELP

fill in each step

4. A rider must be at least 52 inches tall. Use *h*.

Step 1 The phrase is _____.

Step 2 That phrase means _____.

Step 3 Write it: _____

5. A slide allows riders under 200 pounds. Use *w*.

Step 1 The phrase is _____.

Step 2 That phrase means _____.

Step 3 Write it: _____

YOUR TURN

use the steps on your own

6. Write each sentence as an inequality.

a. *x* is at least 9: _____

b. *n* is under 30: _____

c. *w* is at most 50: _____

d. *t* is more than 100: _____

e. *b* is at least 18: _____

f. *k* is under 12: _____

READY CHECK

a problem like the one in today's lesson

7. A freezer stays at most 8 degrees. Which inequality matches? Use *t*.

A $t \geq 8$ **B** $t \leq 8$ **C** $t < 8$ **D** $t > 8$

CHECK YOURSELF ☐ I can do this on my own ☐ I need a little help ☐ I have a question about #____