Name_____ Date_____ Period_____

LESSON 8-4 · SESSION 2 · PREREQUISITE PRACTICE B · SKILL 1 OF 2

Compare Integers

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

TODAY'S LESSON	A closed circle at −1 with an arrow left shows −1 and every number less than it.
YOU NEED TO	Compare integers like −6 and −3: farther right is greater. **You will use it in Practice Form A, problem 1.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Place** both numbers on a number line.
2. The number farther **right** is greater.
3. **Write** <, >, or = between them.

WATCH ME

the steps in action

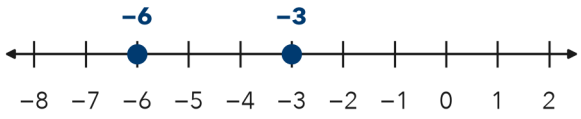
Compare −6 and −3.

Step 1 Place −6 and −3.

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

Step 3 −6 < −3.

Answer **−6 < −3**



TRY IT WITH HELP

fill in each step

1. Compare −1 and −5.

Step 1 Place _____ and −5.

Step 2 _____ is farther right.

Step 3 −1 _____ −5.

2. Compare 0 and −3.

Step 1 Place 0 and _____.

Step 2 _____ is farther right.

Step 3 0 _____ −3.

YOUR TURN

use the steps on your own

3. Write < or > in the box.

a. −4 □ 2 ____

b. −1 □ −5 ____

c. −8 □ −6 ____

d. −7 □ 0 ____

e. −12 □ −8 ____

f. −2 □ −9 ____

Write Inequalities for Constraints

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

TODAY'S LESSON	A room may hold at most 120 people. You write $n \leq 120$ before you graph it.
YOU NEED TO	Turn a limit phrase into an inequality, like at least 54 is ≥ 54. **You will use it in Practice Form A, problems 2, 4 and 5.**

STEPS TO FOLLOW

use these same steps on every problem

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

WATCH ME

the steps in action

A rider must be at least 54 inches tall. Write an inequality for *h*.

Step 1 Limit 54. Phrase "at least."

Step 2 At least means ≥.

Step 3 $h \geq 54$.

Answer $h \geq 54$

TRY IT WITH HELP

fill in each step

4. A bag may weigh at most 23 kg. Use *w*.

Step 1 Limit _____. Phrase "at most."

Step 2 At most means _____.

Step 3 Inequality: _____

5. A team needs more than 20 players. Use *p*.

Step 1 Limit 20. Phrase "_____."

Step 2 More than means _____.

Step 3 Inequality: _____

YOUR TURN

use the steps on your own

6. Write an inequality. Use *x*.

a. more than 12 _____ **b.** at most 30 _____ **c.** at least 5 _____

d. less than 9 _____ **e.** fewer than 22 _____ **f.** no more than 40 _____

READY CHECK

a problem like the one in today's lesson

7. A boat may carry at most 8 people. Which inequality fits?

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

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