Name_____ Date_____ Period_____

LESSON 7-4 · SESSION 1 · PRACTICE · FORM A

Comparing Numbers on a Number Line

Learning target – I can compare two rational numbers using their positions on a number line. · 6.NS.C.7a

REMEMBER

- On a number line, the number **farther right is greater**. Any positive number is greater than any negative number.
- For negatives, the one **closer to 0** is greater. Bigger digits do not mean a bigger negative number: −13 > −40.
- For decimals, use the same number of digits: −0.06 > −0.60.

WORKED EXAMPLE

Compare −14 degrees and −5 degrees.

Step 1 Plot −14 and −5 on a number line.

Step 2 −5 is to the right of −14.

Step 3 Write the comparison: −14 < −5.

Answer **−5 is greater; −14 is colder**

WORDS **greater than** *(mayor que)* · **less than** *(menor que)* · **inequality** *(desigualdad)*

PRACTICE

show your work · label units

1. Write < or > in each blank.

a. −4 ___ −9

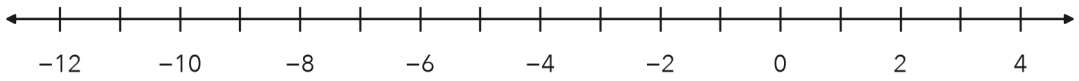
b. −2.5 ___ 1.5

c. −6 ___ −2

d. 0 ___ −4

2. **Trivia Scores.** Scores: Rosa −6, Tomas 3, Willa −11, Pia 0.

Hint *The score farthest right is greatest.*



a. Plot and label all four scores.

b. Compare Rosa and Willa using >. _____

c. Greatest score ___ Least score ___

3. **Two Accounts.** One account ended at −32 dollars. Another ended at −47 dollars. Which balance is greater?

Hint *Which is closer to 0?*

Show your work.

Greater_____

4. **Freezer Check.** One freezer holds at −18 degrees. Another holds at 5 degrees. Which reading is colder?

Show your work.

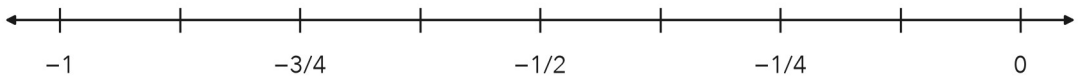
Colder_____

5. Two Cave Floors. Cave A has a floor at −24 m. Cave B has a floor at −9 m. Write a comparison using < or >. Which cave is deeper?

Hint *The deeper floor is farther left.*

Deeper_____

6. Eighths. Plot −7/8 and −1/8. Which number is greater?



Greater_____

7. Amina's Claim. Amina says −0.9 > −0.09 because nine tenths is more than nine hundredths. Is she right? Which number is greater?

Hint *Write −0.9 as −0.90.*

Show your work.

Greater_____

8. Three Accounts. Three accounts hold −45, 12, and −8 dollars.

a. Order the balances from least to greatest. _____

b. Which balance has the largest absolute value? _____

c. Why is that balance not the greatest? _____

Show your work.

FIND THE ERROR

explain the mistake, then fix it

9. Camila's Work. Camila wrote −15 > −4. She said 15 comes after 4 when you count, so −15 must be greater. Explain her mistake. Then write the correct comparison.

TEST PRACTICE

choose the best answer

10. Which symbol makes −6 ___ −2 true?

A < **B** > **C** = **D** none of these

11. On a number line, the greater number is always –

A farther left **B** farther right **C** farther from 0 **D** negative

SELF-CHECK CODE *find your answer · copy its letter into that problem's box · spell a math word*

−6 > −11 C	−0.9 X	−0.09 R	−47 Q	−32 O	−1/8 A	−45 E	−7/8 Z	−18 M	Cave A P

#2b	#3	#4	#5	#6	#7	#8b

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