Name_____ Date_____ Period_____

LESSON 7-4 · SESSION 2 · PRACTICE · FORM A

Ordering Integers and Rational Numbers

Learning target – I can order integers and rational numbers from least to greatest. · 6.NS.C.7b

REMEMBER

- **Least to greatest** means left to right on a number line. Greatest to least means right to left.
- The number farthest from 0 may be the **least**. Deepest or coldest means least.
- Change every number to a **decimal** first: −2 1/2 = −2.5 and 3/4 = 0.75.

WORKED EXAMPLE

Order −6, 1.5, −0.5, and 3/4 from least to greatest.

Step 1 3/4 = 0.75.

Step 2 Negatives first: −6 < −0.5.

Step 3 Then positives: 0.75 < 1.5.

Answer **−6, −0.5, 3/4, 1.5**

WORDS **order** *(orden)* · **least** *(mínimo)* · **greatest** *(máximo)*

PRACTICE

show your work · label units

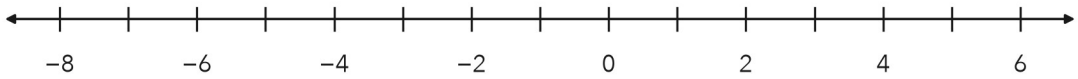
1. Order each set from least to greatest.

a. −2, −14, −9 _____

b. −3, 2.5, −0.5, 0 _____

2. **Golf Leaderboard.** Scores: Sofia −3, Lena 2, Mark −7, Owen 0, Dev 5. In golf, the least score leads.

Hint *|−7| = 7 and |5| = 5.*



a. Plot the scores. Order them from least to greatest. _____

b. Which score is farther from 0, −7 or 5? _____

c. Who is leading? _____

3. **Lake Floors.** Three lake floors sit at −188 ft, −640 ft, and −1,105 ft. Which floor is deepest?

Hint *The deepest floor is the least number.*

Show your work.

Deepest_____

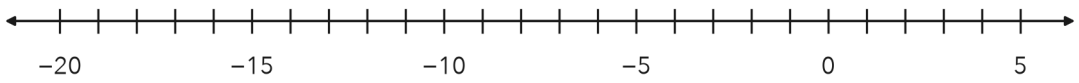
4. **Mixed Forms.** Order −1/2, −0.75, and −1.25 from least to greatest. Which is greatest?

Hint *−1/2 = −0.5.*

Show your work.

Greatest_____

5. Week of Lows. Low temperatures: −11, 4, −19, 0, and −2 degrees. Plot and order them from least to greatest. Name the coldest reading.



Coldest _____

6. Number Strip. A strip shows −2.5, −2.05, 1/2, and −3.4. Order them from greatest to least. Which has the greatest absolute value?

Hint *Write 1/2 as 0.5 first.*

Show your work.

Greatest |n| _____

7. Harbor Depths. A harbor chart lists −16 ft, −4 1/2 ft, 0 ft, and −16.5 ft. Order them from least to greatest. Name the deepest spot.

Hint *−4 1/2 = −4.5.*

Show your work.

Deepest _____

8. Five Readings. Sensors read 1.5, −2, −1/4, 0.75, and −2.5 degrees.

a. Write every reading as a decimal. _____

b. Order the readings from least to greatest. _____

c. Which reading is closest to 0? How do you know? _____

Show your work.

FIND THE ERROR

explain the mistake, then fix it

9. Isaiah's Work. Isaiah ordered −2, −14, and −9 from least to greatest as −2, −9, −14, because 2 is smaller than 9 and 14. Explain his mistake. Then write the correct order.

_____

_____

TEST PRACTICE

choose the best answer

10. The least of −8, −15, and −2 is –

A −8 **B** −15 **C** −2 **D** 0

11. The greatest of −4.5, −4.05, and −4.55 is –

A −4.5 **B** −4.05 **C** −4.55 **D** They are equal.

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

−7 G	−2.05 Z	−1/4 R	−3.4 T	−19 A	−16 X	−16.5 E	−1/2 E	−1,105 R	−188 Q

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

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