ALBERT

Name _____ Date _____

Comparing and Ordering Rational Numbers Worksheet

Grade 6 · Common Core 6.NS.C.7

> Understand ordering and absolute value of rational numbers.

Practice

Builds the skill step by step.

1. Which symbol makes this true? -5 ___ 2

   A. $<$

   B. $>$

   C. $=$

2. Which symbol makes this true? -3 ___ -8

   A. $<$

   B. $=$

   C. $>$

3. Order from least to greatest: $4, -6, 0, -1$

4. Which is greater, -12 or -15?

5. Order from greatest to least: $-2, 7, -9, 3$

6. Which number is the least?

   A. -10

   B. -1

   C. 0

   D. 6

7. Write a statement using to compare -4 and -7.

8. The temperature in Denver is $-3°F$ and in Chicago it is $-9°F$. Which city is colder?

9. Which statement is true?

   A. $-6 > -2$

   B. $-2 < -6$

   C. $-6 < -2$

   D. $-6 = -2$

10. Order from least to greatest: 1, -1, -0.5, 0.5

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On Level

Grade-level practice.

1. Order from least to greatest: -2.5, $-\frac{1}{4}$, -3, $\frac{1}{2}$

2. Write an inequality that compares $-7°C$ and $-2°C$, and explain what it means.

3. A diver is at -30 feet and a fish is at -45 feet. Which statement is true?

   A. The fish is deeper than the diver because $-45 < -30$.

   B. The diver is deeper because $-30 < -45$.

   C. They are at the same depth.

   D. The fish is higher because $45 > 30$.

4. Order from greatest to least: -1.2, -1.02, -1.25, -1

5. Which is greater: $-\frac{2}{3}$ or $-\frac{3}{4}$?

6. Account A has a balance of $-\$25$. Account B has $-\$40$. Which account owes more money?

7. Which list is in order from least to greatest?

   A. $-8, -4.5, -4, 0$

   B. $-4, -4.5, -8, 0$

   C. $0, -4, -4.5, -8$

   D. $-4.5, -8, -4, 0$

8. Write a number that is between -3 and -4.

9. Is -0.6 greater or less than $-\frac{1}{2}$? Explain.

10. Elevations: Lake A is at -20 feet, Lake B is at -8 feet and Lake C is at 15 feet. Order the lakes from lowest to highest.

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Challenge

Multi-step and word problems that stretch it.

1. Order from least to greatest: $-\frac{5}{8}$, -0.6, $-\frac{2}{3}$, -0.65

2. Tia says $-20 > -5$ because $20 > 5$. Is she correct? Explain.

3. If $a < 0$ and $b < 0$, and a is farther from 0 than b, which must be true?

   A. $a > b$

   B. $a = b$

   C. $a + b = 0$

   D. $a < b$

4. The low temperatures for 4 days were -6°F, 2°F, -11°F and -1°F. Which day was the coldest, and which was the warmest?

5. Write three different numbers that are greater than -2 but less than -1.

6. A golfer's scores relative to par were -3, $+1$, -5 and 0. In golf, lower is better. Order the scores from best to worst.

7. Which number is between $-\frac{7}{10}$ and $-\frac{3}{5}$?

   A. $-\frac{3}{4}$

   B. $-\frac{1}{2}$

   C. $-\frac{4}{5}$

   D. $-\frac{13}{20}$

8. x is a negative integer greater than −4. List every possible value of x.

9. Explain why −10 1.

10. Bank balances: Ana −$12.50, Ben −$8.75, Cai $3.00, Dee −$12.05. Order the balances from least to greatest.