

Grade 6 - Ordering Rational Numbers and Absolute Value - Worksheet

Common Core 6.NS.C.7a, 6.NS.C.7b, 6.NS.C.7c, 6.NS.C.7d · maths-pdf.fr/en/

Name: _____ Class: _____ Date: ____/____/____

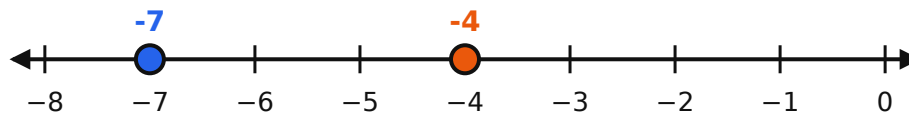
These 20 problems practice comparing and ordering rational numbers and absolute value (Common Core 6.NS.C.7). You will write inequality statements, order integers, fractions, and decimals, and interpret absolute value in contexts like temperature, debt, and elevation.

Grade 6 · Common Core State Standards: **6.NS.C.7a**, **6.NS.C.7b**, **6.NS.C.7c**, **6.NS.C.7d**

Exercise 1 - Compare an integer pair

Compare -3 and 2 . Write $<$, $>$, or $=$ between them.

Exercise 2 - Compare two negatives



Two negative numbers.

Compare -7 and -4 using the number line.

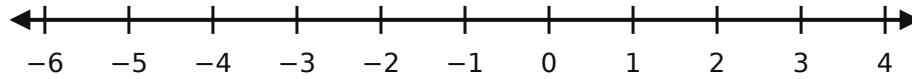
Exercise 3 - Compare decimals

Compare -0.5 and -0.25 .

Exercise 4 - Compare fractions

Compare $-\frac{3}{4}$ and $-\frac{1}{2}$.

Exercise 5 - Order integers



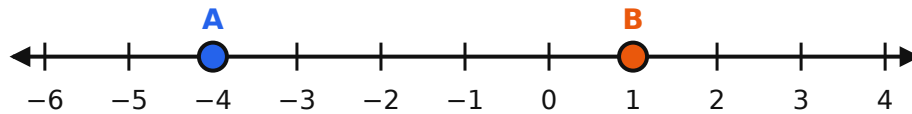
Use the number line to order the numbers.

Write the numbers in order from least to greatest: $-5, 3, -1, 0, 2$.

Exercise 6 - Order rational numbers

Write the numbers in order from least to greatest: $-2.5, -2, 1.5, -3.1$.

Exercise 7 - Write an inequality



Points A and B.

Write an inequality that compares the numbers at A and B.

Exercise 8 - Absolute value of a negative

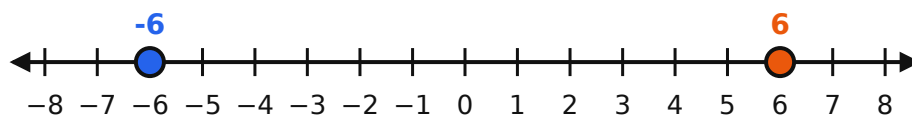
Find $|-8|$.

Exercise 9 - Absolute value practice

Find each absolute value.

- a. $|5|$
- b. $|0|$
- c. $|-3.5|$

Exercise 10 - Distance from zero



Two points.

Find the distance of each point from 0. What do you notice?

Exercise 11 - Ocean depths

The surface of a lake is at 0 feet. Diver A is at -80 feet and Diver B is at -120 feet. Write an inequality comparing the two elevations and tell which diver is higher.

Exercise 12 - Colder temperature

The low temperature was -5°F on Monday and -12°F on Tuesday. Write an inequality that compares the temperatures and tell which day was colder.

Exercise 13 - Debt and magnitude

Liam owes \$50. Maya owes \$30. Write each debt as an integer and compare the integers. Then compare the absolute values and tell who owes more.

Exercise 14 - Distance below the surface

A submarine is at -35 feet. Write the absolute value of its elevation and say what it means.

Exercise 15 - Compare absolute values

Compare $|-9|$ and $|6|$. Use $<$, $>$, or $=$.

Exercise 16 - True or false?

Is the statement $-2 > -5$ true or false? Explain using a number line.

Exercise 17 - Order with absolute value

Write $|-4|$, -3 , $|2|$, $-|5|$ in order from least to greatest.

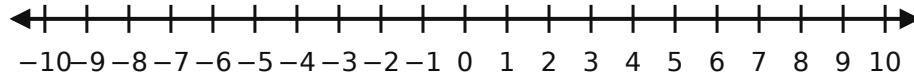
Exercise 18 - Golf scores

Player	Score
Dylan	-3
Maya	+2
Priya	-5
Jamal	0

In golf, a lower score is better.

Order the golf scores from lowest to highest and tell who has the best score.

Exercise 19 - Same absolute value



Number line.

Find all numbers whose absolute value is 7.

Exercise 20 - City temperatures

Four cities had these low temperatures ($^{\circ}\text{F}$): Fairbanks -8, Duluth -15, Denver -2, Buffalo -11. List the cities from coldest to warmest. Which city has the temperature with the greatest absolute value?