LESSON MAKER PRO

Left or Right?

Use number lines to interpret inequalities.

GRADE 6 · 6.NS.C.7a

CCSS.Math.Content.6.NS.C.7a "Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram. For example, interpret -3 > -7 as a statement that -3 is located to the right of -7 on a number line oriented from left..."

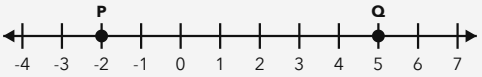
NAME _____ DATE _____

POSITION SHOWS VALUE

On a number line that increases from left to right, a number farther right is greater. A number farther left is less. Use > for greater than and < for less than.

WORKED EXAMPLE

Use the number line. Which point is farther right, P or Q? Write an inequality that compares their values.

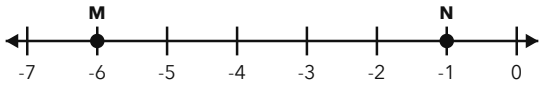


1. The number line increases from left to right.
2. Q is at 5, which is to the right of P at -2.
3. A number to the right is greater, so 5 > -2.

Answer: Q is farther right, and 5 > -2.

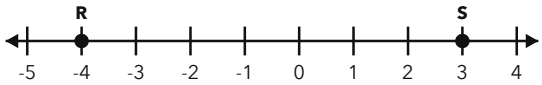
PRACTICE 6 problems

1 Use the number line. Write an inequality comparing the values of M and N. Then tell which point is to the left.



ANSWER _____

2 Use the number line. Is -4 < 3 true or false? Explain using left and right.



ANSWER _____

3 Interpret this inequality as a statement about a number line: -9 < -3.

ANSWER _____

4 Interpret this inequality as a statement about a number line: 0 > -7.

ANSWER _____

5 Write the correct inequality comparing 1/2 and -3/2. Then state which number is farther right on a number line.

ANSWER _____

6 Complete the inequality: -5 ___ 4. Then tell what the completed inequality says about the numbers' positions.

ANSWER _____

APPLY IT Show your work

1 In an online tournament, Jalen's round score is -8 points and Priya's round score is -3 points. Write an inequality comparing the scores. Whose score is farther right on a number line?

WORK SPACE

ANSWER _____

2 At a ski park, the morning temperature is -10°C and the afternoon temperature is 1°C. Write an inequality comparing the temperatures. Interpret the inequality using left and right on a number line.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Use the number line. A student says, "Point A is greater than point B because A is closer to zero." Is the student correct? Explain using the points' positions. Then list the values of A, B, and C from least to greatest.



WORK SPACE AND ANSWER

ANSWER KEY

Left or Right?

GRADE 6 · 6.NS.C.7a

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Use the number line. Write an inequality comparing the values of M and N. Then tell which point is to the left.	**-6 < -1; M is to the left of N.**
2	Use the number line. Is -4 < 3 true or false? Explain using left and right.	**True. -4 is to the left of 3.**
3	Interpret this inequality as a statement about a number line: -9 < -3.	**-9 is to the left of -3 on a number line.**
4	Interpret this inequality as a statement about a number line: 0 > -7.	**0 is to the right of -7 on a number line.**
5	Write the correct inequality comparing 1/2 and -3/2. Then state which number is farther right on a number line.	**1/2 > -3/2; 1/2 is farther right.**
6	Complete the inequality: -5 ___ 4. Then tell what the completed inequality says about the numbers' positions.	**-5 < 4; -5 is to the left of 4.**

PART 2 · APPLY IT

1. **-8 < -3; Priya's score is farther right.** Compare the locations of -8 and -3. Since -3 is to the right of -8, it is the greater score.
2. **1 > -10; 1 is to the right of -10 on a number line.** The temperature 1 is located to the right of -10. A number farther right is greater.

CHALLENGE

No. A is to the left of B, so -1 < 2. From least to greatest: -1, 2, 7.

Accept equivalent statements that correctly use left or right and correctly identify greater or less. For the challenge, students must state that being closer to zero does not make A greater than B.