

Left or Right?

Use number lines to compare rational numbers.

GRADE 6 • NY-6.NS.7.a

NY-6.NS.7.a "Interpret statements of inequality as statements about the relative position of two numbers on a number line."

NAME _____

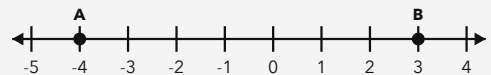
DATE _____

POSITION SHOWS VALUE

On a horizontal number line, numbers farther right are greater, and numbers farther left are less. Use $<$ when the number on the left is smaller and $>$ when the number on the left is greater.

WORKED EXAMPLE

Use the number line. Write an inequality that compares A and B.

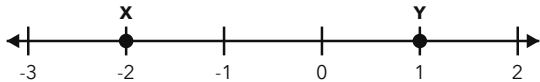


1. Point A is at -4.
2. Point B is at 3.
3. A is left of B, so -4 is less than 3.

Answer: $-4 < 3$

PRACTICE 6 problems

- 1** Use the number line. Write an inequality that compares X and Y.



ANSWER _____

- 2** Write an inequality to show that $-3/4$ is to the left of $5/4$ on a number line.

ANSWER _____

- 3** Which number is farther right on a number line, -1.6 or -1.2? Write an inequality using both numbers.

ANSWER _____

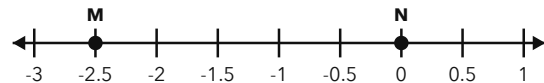
- 4** Which number could be between 0 and $1/2$ on a number line: $-1/4$, $3/8$, or $2/3$? Write an inequality to show its position.

ANSWER _____

- 5** In the inequality $4/5 > -7/5$, which number is to the left on a number line?

ANSWER _____

- 6** Use the number line. Write an inequality that compares M and N.



ANSWER _____

APPLY IT Show your work

- 1** At ski club, the morning temperature is $-7/2$ degrees C. The afternoon temperature is $-3/2$ degrees C. Write an inequality comparing the temperatures. Which temperature is colder?

WORK SPACE

ANSWER _____

- 2** On a game map, Noor's avatar is at -1.75 km and Eli's avatar is at 2.5 km. Write an inequality comparing their locations. Whose avatar is farther right?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Sam says that $-5/6$ is to the right of $-1/3$ because $5/6$ is greater than $1/3$. Is Sam correct? Explain your reasoning and write the correct inequality.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Use the number line. Write an inequality that compares X and Y.	$-2 < 1$
2	Write an inequality to show that $-3/4$ is to the left of $5/4$ on a number line.	$-3/4 < 5/4$
3	Which number is farther right on a number line, -1.6 or -1.2 ? Write an inequality using both numbers.	-1.2 is farther right; $-1.6 < -1.2$.
4	Which number could be between 0 and $1/2$ on a number line: $-1/4$, $3/8$, or $2/3$? Write an inequality to show its position.	$3/8$; $0 < 3/8 < 1/2$.
5	In the inequality $4/5 > -7/5$, which number is to the left on a number line?	$-7/5$
6	Use the number line. Write an inequality that compares M and N.	$-5/2 < 0$

PART 2 • APPLY IT

1. **$-7/2 < -3/2$. The morning temperature is colder.** Place both temperatures on a number line. Since $-7/2$ is farther left, it is less than $-3/2$ and is colder.
2. **$-1.75 < 2.5$. Eli's avatar is farther right.** A positive location is to the right of a negative location. Therefore, -1.75 is less than 2.5 .

CHALLENGE

No. $-5/6$ is farther left than $-1/3$ on a number line, so $-5/6 < -1/3$.

Accept equivalent fraction or decimal forms when they name the same values. For written explanations, accept language that correctly identifies the farther-left number as the smaller number.