

Number Line Navigator

Place, compare, and order rational numbers.

GRADE 6 • TEKS 6.2.C

6.2.C "locate, compare, and order integers and rational numbers using a number line;"

NAME _____

DATE _____

READ THE LINE

Numbers farther right on a number line are greater. Negative numbers are left of 0, and a number closer to 0 is greater when both numbers are negative.

WORKED EXAMPLE

Use the number line. Compare M and N using $<$ or $>$.

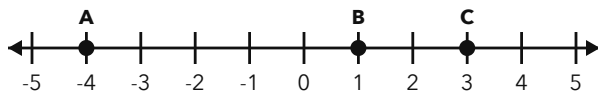


- Point M is at -1.25 .
- Point N is at 1.75 .
- M is left of N, so $-1.25 < 1.75$.

Answer: $-1.25 < 1.75$

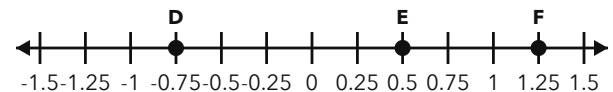
PRACTICE 6 problems

- 1** Use the number line. Write the values of A, B, and C from least to greatest.



ANSWER _____

- 2** Use the number line. Write the values of D, E, and F from greatest to least.



ANSWER _____

- 3** Order $-7/4$, -1.2 , and $1/4$ from least to greatest.

ANSWER _____

- 4** Write $<$, $>$, or $=$ to make the statement true:
 $5/6$ ____ 0.8

ANSWER _____

- 5** Which number is greater: $-2/3$ or -0.6 ?

ANSWER _____

- 6** Order $11/4$, $-9/2$, and -4 from greatest to least.

ANSWER _____

APPLY IT Show your work

- 1** In a video game tournament, three players had these score changes: Jada, -1.1 points; Kai, $\frac{3}{8}$ point; and Luis, -2.6 points. Order the score changes from least to greatest.

WORK SPACE

ANSWER _____

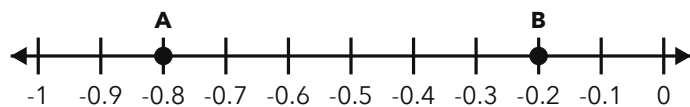
- 2** A marine science club measures water levels compared with the usual level. Tank A is at $-\frac{4}{5}$ meter, and Tank B is at $\frac{1}{3}$ meter. Which tank has the higher water level? How much higher is it?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Use the number line. Point D is exactly halfway between A and B. What rational number is D? Explain how you know.



WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Use the number line. Write the values of A, B, and C from least to greatest.	-4, 1, 3
2	Use the number line. Write the values of D, E, and F from greatest to least.	1.25, 0.5, -0.75
3	Order $-7/4$, -1.2 , and $1/4$ from least to greatest.	$-7/4$, -1.2, $1/4$
4	Write $<$, $>$, or $=$ to make the statement true: $5/6$ ____ 0.8	$>$
5	Which number is greater: $-2/3$ or -0.6 ?	-0.6
6	Order $11/4$, $-9/2$, and -4 from greatest to least.	$11/4$, -4, $-9/2$

PART 2 • APPLY IT

1. **-2.6, -1.1, 3/8** Convert $3/8$ to 0.375 . Then compare the locations of -2.6 , -1.1 , and 0.375 on a number line.
2. **Tank B, 17/15 meter higher.** Tank B is positive, so it is higher. Find the difference: $1/3 - (-4/5) = 5/15 + 12/15 = 17/15$.

CHALLENGE

D = -0.5. The distance from -0.8 to -0.2 is 0.6, and half of 0.6 is 0.3. Moving 0.3 right from -0.8 gives -0.5.

Accept equivalent decimal or fraction forms when they name the same rational number. For ordered lists, require the requested order and all values.