

Integer Line Up

Use number lines to compare and order integers.

GRADE 6 • 6.NS.2.b

6.NS.2.b "Compare and order integers using a number line."

NAME _____

DATE _____

LEFT TO RIGHT

On a number line, numbers farther left are smaller, and numbers farther right are greater. Negative numbers are left of 0, while positive numbers are right of 0. To order integers, list them from left to right for least to greatest.

WORKED EXAMPLE

Order -9, 4, and -1 from least to greatest.

1. Locate -9, -1, and 4 on a number line.
2. Read the numbers from left to right.
3. The order is -9, -1, 4.

Answer: -9, -1, 4

PRACTICE 6 problems

1 Write $<$, $>$, or $=$. -6 ____ -2

ANSWER _____

2 Write $<$, $>$, or $=$. 5 ____ -7

ANSWER _____

3 Order -5, 3, and 0 from least to greatest.

ANSWER _____

4 Order 8, -3, 6, and -10 from greatest to least.

ANSWER _____

5 Which integer is greatest: -12, -15, or -11?

ANSWER _____

6 Write $<$, $>$, or $=$. -14 ____ -14

ANSWER _____

APPLY IT Show your work

- 1** In an online game, Jalen's score changed by -16 points in one round. Priya's score changed by 9 points. Whose score change is greater? Write a comparison.

WORK SPACE

ANSWER _____

- 2** A weather app shows morning temperatures of -20 degrees, 12 degrees, and -6 degrees in three cities. Order the temperatures from coldest to warmest.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Nina says -17 is greater than -5 because 17 is greater than 5. Is Nina correct? Explain using a number line idea.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Write $<$, $>$, or $=$. -6 ____ -2	$<$
2	Write $<$, $>$, or $=$. 5 ____ -7	$>$
3	Order -5 , 3 , and 0 from least to greatest.	$-5, 0, 3$
4	Order 8 , -3 , 6 , and -10 from greatest to least.	$8, 6, -3, -10$
5	Which integer is greatest: -12 , -15 , or -11 ?	-11
6	Write $<$, $>$, or $=$. -14 ____ -14	$=$

PART 2 • APPLY IT

1. **$9 > -16$, so Priya's score change is greater.** Compare the integers on a number line. Since 9 is to the right of -16 , 9 is greater.
2. **$-20, -6, 12$** Coldest means least, and warmest means greatest. Order the integers from left to right on a number line.

CHALLENGE

No. -17 is to the left of -5 on a number line, so $-17 < -5$.

Accept inequality statements that show the same correct comparison. For the challenge, accept any explanation that correctly states that the farther-left negative integer is smaller.