

Zero Point

Compare integers in everyday situations.

GRADE 6 • 6.NR.3.1

6.NR.3.1 "Identify and compare integers and explain the meaning of zero based on multiple authentic situations."

NAME _____

DATE _____

INTEGERS IN ORDER

On a number line, an integer farther to the right is greater. Zero is neither positive nor negative, and it can show no change or a reference location, depending on the situation.

WORKED EXAMPLE

Compare -14 and 6 using $>$, $<$, or $=$.

1. Locate -14 and 6 relative to 0.
2. -14 is left of 0, and 6 is right of 0.
3. A number to the right is greater, so $-14 < 6$.

Answer: $-14 < 6$

PRACTICE 6 problems

- 1** Compare -3 and 5 using $>$, $<$, or $=$.

ANSWER _____

- 2** Compare -8 and -2 using $>$, $<$, or $=$.

ANSWER _____

- 3** A game says your score changed by 0 points in a round. What does 0 mean?

ANSWER _____

- 4** An elevator display shows 0, which is the ground floor. What does 0 tell you about the elevator's location?

ANSWER _____

- 5** List -7, 2, -4, and 1 from least to greatest.

ANSWER _____

- 6** Which integer is greatest: -10, -1, or -6?

ANSWER _____

APPLY IT Show your work

- 1** At an esports tournament, one team's score change is -9 points after a penalty. Another team's score change is 4 points after a bonus. Which team has the greater score change? Write a comparison statement.

WORK SPACE

ANSWER _____

- 2** After buying supplies, the robotics club's fundraiser account balance is \$0. The drama club's balance is -\$13 because it owes money. Which balance is greater? What does \$0 mean for the robotics club?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

At a school play, positions on a straight backstage line are measured from center stage, 0 m. Kai is at -15 m, Nia is at 8 m, and Omar is at 0 m. List the positions from least to greatest. Then explain what 0 m means.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Compare -3 and 5 using $>$, $<$, or $=$.	-3 < 5
2	Compare -8 and -2 using $>$, $<$, or $=$.	-8 < -2
3	A game says your score changed by 0 points in a round. What does 0 mean?	Your score did not change during the round.
4	An elevator display shows 0, which is the ground floor. What does 0 tell you about the elevator's location?	It is at the ground floor.
5	List -7, 2, -4, and 1 from least to greatest.	-7, -4, 1, 2
6	Which integer is greatest: -10, -1, or -6?	-1

PART 2 • APPLY IT

1. **The team with 4 points has the greater score change. $4 > -9$.** A positive integer is greater than a negative integer. Therefore, 4 is greater than -9.
2. **The robotics club's balance is greater: $0 > -13$. \$0 means the club has no money in the account and owes no money.** Zero is greater than any negative integer. The stated \$0 balance means there is neither money available nor money owed.

CHALLENGE

-15 m, 0 m, 8 m. Omar is at center stage.

Accept equivalent comparison wording that clearly identifies the greater integer. For zero explanations, accept accurate context-based statements such as no change, ground floor, or the stated reference location.