LESSON MAKER PRO

Integer Trailblazer

Read, compare, order, and measure integers.

GRADE 6 · 6.NS.2

6.NS.2 "The student will reason and use multiple strategies to represent, compare, and order integers. Represent integers (e.g., number lines, concrete materials, pictorial models), including models derived from contextual situations..."

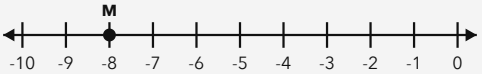
NAME _____ DATE _____

INTEGERS ON A LINE

Numbers farther right on a number line are greater. Absolute value tells the distance from zero, so it is never negative.

WORKED EXAMPLE

Look at point M. What integer does it show? What is its absolute value?

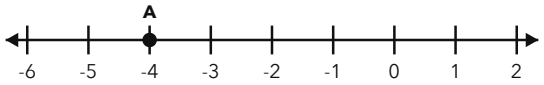


1. Point M is at -8.
2. Count from -8 to 0 on the number line.
3. The distance is 8 units.

Answer: -8; |-8| = 8

PRACTICE 6 problems

1 Look at point A. Write the integer at A and its absolute value.



ANSWER _____

2 Use point B. Write a comparison using <, >, or = to compare B and -1.



ANSWER _____

3 Write <, >, or = to make the statement true: -11 ___ -3

ANSWER _____

4 Order these integers from least to greatest: 4, -6, 0, -2

ANSWER _____

5 Find the absolute value: |-13|

ANSWER _____

6 Write an integer that has an absolute value of 12 and is less than zero.

ANSWER _____

APPLY IT Show your work

1 In a skate park scoring challenge, Jada has -4 points and Mateo has 7 points. Write a comparison using <, >, or =. Who has the higher score, and how many more points does that person have?

WORK SPACE

ANSWER _____

2 A mountain bike app shows elevation relative to the trailhead. Li is at -120 meters, Omar is at 45 meters, and Nia is at -30 meters. List the elevations from least to greatest. Whose elevation has the greatest absolute value?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A point is 7 units from zero on a number line. The point is less than -2. What integer does the point represent? Explain how you know.

WORK SPACE AND ANSWER

ANSWER KEY

Integer Trailblazer

GRADE 6 · 6.NS.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Look at point A. Write the integer at A and its absolute value.	**-4; |-4| = 4**
2	Use point B. Write a comparison using <, >, or = to compare B and -1.	**5 > -1**
3	Write <, >, or = to make the statement true: -11 ___ -3	**-11 < -3**
4	Order these integers from least to greatest: 4, -6, 0, -2	**-6, -2, 0, 4**
5	Find the absolute value: |-13|	**13**
6	Write an integer that has an absolute value of 12 and is less than zero.	**-12**

PART 2 · APPLY IT

1. **7 > -4; Mateo has the higher score by 11 points.** Compare the positions of -4 and 7 on a number line. The distance between the scores is 7 - (-4) = 11.
2. **-120, -30, 45; Li's elevation has the greatest absolute value, 120 meters.** Order the negative elevations before the positive elevation, with -120 farther left than -30. Compare distances from zero: 120, 45, and 30.

CHALLENGE

The integer is -7. The integers 7 and -7 are both 7 units from zero, and only -7 is less than -2.

Accept correctly written equivalent comparisons, such as "-1 < 5." For the challenge, students should identify both possible distances from zero and use the comparison condition to choose -7.