

Learning Targets

Rational Numbers

Lesson 1: Positive and Negative Numbers

- I can explain what 0, positive numbers, and negative numbers mean in the context of temperature and elevation.
- I can use positive and negative numbers to describe temperature and elevation.
- I know what positive and negative numbers are.

Lesson 2: Points on the Number Line

- I can determine or approximate the value of any point on a number line.
- I can represent negative numbers on a number line.
- I understand what it means for numbers to be opposites.

Lesson 3: Comparing Positive and Negative Numbers

- I can explain how to use the positions of numbers on a number line to compare them.
- I can explain what a rational number is.
- I can use inequalities to compare positive and negative numbers.

Lesson 4: Ordering Rational Numbers

- I can compare and order rational numbers.
- I can use phrases like “greater than,” “less than,” and “opposite” to compare rational numbers.

Lesson 5: Using Negative Numbers to Make Sense of Contexts

- I can explain and use negative numbers in situations involving money.
- I can interpret and use negative numbers in different contexts.

Lesson 6: Absolute Value of Numbers

- I can explain what the absolute value of a number is.
- I can find the absolute values of rational numbers.
- I can recognize and use the notation for absolute value.

Lesson 7: Comparing Numbers and Distance from Zero

- I can explain what absolute value means in situations involving elevation.
- I can use absolute values to describe elevations.
- I can use inequalities to compare rational numbers and the absolute values of rational numbers.

Lesson 8: Writing and Graphing Inequalities

- I can graph inequalities on a number line.
- I can write an inequality to represent a situation.

Lesson 9: Solutions of Inequalities

- I can determine if a particular number is a solution to an inequality.
- I can explain what it means for a number to be a solution to an inequality.
- I can graph the solutions to an inequality on a number line.

Lesson 10: Interpreting Inequalities

- I can explain what the solution to an inequality means in a situation.
- I can write inequalities that involves more than one variable.

Lesson 11: Points on the Coordinate Plane

- I can describe a coordinate plane that has four quadrants.
- I can plot points with negative coordinates in the coordinate plane.
- I know what negative numbers in coordinates tell us.

Lesson 12: Constructing the Coordinate Plane

- When given points to plot, I can construct a coordinate plane with an appropriate scale and pair of axes.

Lesson 13: Interpreting Points on a Coordinate Plane

- I can explain how rational numbers represent balances in a money context.
- I can explain what points in a four-quadrant coordinate plane represent in a situation.
- I can plot points in a four-quadrant coordinate plane to represent situations and solve problems.

Lesson 14: Distances on a Coordinate Plane

- I can find horizontal and vertical distances between points on the coordinate plane.

Lesson 15: Shapes on the Coordinate Plane

- I can find the lengths of horizontal and vertical segments in the coordinate plane.
- I can plot polygons on the coordinate plane when I have the coordinates for the vertices.

Lesson 16: Common Factors

- I can explain what a common factor is.
- I can explain what the greatest common factor is.
- I can find the greatest common factor of two whole numbers.

Lesson 17: Common Multiples

- I can explain what a common multiple is.
- I can explain what the least common multiple is.
- I can find the least common multiple of two whole numbers.

Lesson 18: Using Common Multiples and Common Factors

- I can solve problems using common factors and multiples.

Lesson 19: Drawing on the Coordinate Plane

- I can use ordered pairs to draw a picture.