**Unit Guide: The Number System – Rational Numbers**

Kristy Mayer [kmayer@mayfieldschools.org](mailto:kmayer@mayfieldschools.org)

Tricia Potts [tpotts@mayfieldschools.org](mailto:tpotts@mayfieldschools.org)

Carly Vinborg [cvinborg@mayfieldschools.org](mailto:cvinborg@mayfieldschools.org)

Jeanne Assing Schroeder [jassingschroeder@mayfieldschools.org](mailto:jassingschroeder@mayfiledschools.org)

**Common Core Learning Targets**:

* I can understand that positive and negative numbers are used together to describe quantities having opposite directions or values; use positive and negative numbers to represent quantities in real-world context, explaining the meaning of 0 in each situation. (6.NS.5)
* I can understand a rational number as a point on the number line. (6.NS.6)
* I can understand signs of numbers in ordered pairs as indicating locations in quadrants of the coordinate plane. (6.NS.6b)
* I can understand ordering and absolute value of rational numbers. (6.NS.7)
* I can solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane, including the use of coordinates and absolute value to find distances between points with the same first or second coordinate. (6.NS.8)

|  |  |
| --- | --- |
| **MATH ON CALL** | **The Number System – Rational Numbers** |
| Section | Topic |
| 028-045  011-026  050 | Rational Numbers (Fractions)  Decimals  Absolute Value |

**VOCABULARY**

absolute value benchmark

coordinate coordinate plane

denominator decimal

equivalent fractions fraction

improper fraction mixed number

negative number numerator

opposites positive number

quadrants rational number

x-axis y-axis

rational number

Learning Goals

* I can identify opposites on a number line.
* I can understand absolute value as a number’s distance from zero on the number line.
* I can convert between fractions and decimals.
* I can compare and order fractions and decimals on a number line.
* I can use the signs of numbers in ordered pairs to determine the quadrant on the coordinate plane.
* I can use coordinates and absolute value to find the distance between points on the coordinate plane.