Standard 1

Number Sense and Computation

CORE STANDARD
Number Sense and Computation

Positive and Negative Numbers
Understand and apply the concept of positive and negative numbers. Add, subtract, multiply and divide positive and negative integers. Represent negative numbers and computation with negative numbers on a number line.
[Standard Indicators: 6.1.1, 6.1.5]

Percent Representations
Use percents to represent parts of a whole. Represent numbers as fractions, decimals and percents.
[Standard Indicators: 6.1.3, 6.1.4]

Multiplication and Division of Fractions and Decimals
Understand and perform multiplication and division with positive decimals and fractions.
[Standard Indicator: 6.1.6]

Ratio and Rate
Solve simple ratio and rate problems using multiplication and division.
[Standard Indicators: 6.1.7, 6.1.8, 6.1.9]

6.1.1 **Compare, order and represent on a number line positive and negative integers, fractions, decimals to hundredths and mixed numbers.**

Example: Find the positions on a number line of 3.56, -2.5, $1\frac{5}{6}$, -4 and $-\frac{3}{4}$.

6.1.2 **Interpret the absolute value of a number as the distance from zero on a number line. Find the absolute value of real numbers and know that the distance between two numbers on the number line is the absolute value of their difference.**

Example: Use a number line to explain the absolute values of -3 and 7.

6.1.3 **Use percents to represent parts of a whole. Find the percents part of a whole.**

Example: Draw a circle and shade 45 percent of it.

6.1.4 **Recognize commonly used fractions, decimals, percents and all of their equivalents and convert between any two representations of non-negative rational numbers without the use of a calculator.**

Example: Know that $\frac{1}{3} = 0.333\ldots$, $\frac{1}{2} = 0.5$, $\frac{2}{5} = 0.4$, etc.