



## 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  $\frac{1}{3} = 0.333\dots$ ,  $\frac{1}{2} = 0.5$ ,  $\frac{2}{5} = 0.4$ , etc.