# **Unit 2d-Understand Fractions As Numbers**

Content Area:	Mathematics
Course(s):	Math 3
Time Period:	Marking Period 2
Length:	MP2 Topic 12 12-1 to 12-8
Status:	Published

## **Essential Questions**

• What are different interpretations of a fraction?

### **Big Ideas**

- Build on the Concept of Unit Fractions- Students understand that fractions are parts of a whole.
- Fraction Representations- Fraction concepts are developed and reinforced using diagrams of positioned regions, fraction bars, and number lines.

# **CSDT Technology Connection**

8.1.5.IC.1: Identify computing technologies that have impacted how individuals live and work and describe the factors that influenced the changes.

## **Enduring Understandings**

Number and Operations—Fractions

3.NF.A [M] Develop understanding of fractions as numbers
3.NF.A.1 Understand a fraction 1/b as the quantity formed by 1 part when a whole is partitioned into b equal parts; understand a fraction a/b as the quantity formed by a parts of size 1/b.

**3.NF.A.2a** Understand a fraction as a number on the number line; represent fractions on a number line diagram

a. Represent a fraction 1/b on a number line diagram by defining the interval from 0 to 1 as the whole and partitioning it into b equal parts. Recognize that each part has size 1/b and that the endpoint of the part based at 0 locates the number 1/b on the number line.

**3.NF.A.2b** Represent a fraction a/b on a number line diagram by marking off a lengths 1/b from 0. Recognize that the resulting interval has size a/b and that its endpoint locates the number a/b on the number line

**3.NF.A.3.c** Express whole numbers as fractions, and recognize fractions that are equivalent to whole numbers. Examples: Express 3 in the form 3 = 3/1; recognize that 6/1 = 6; locate 4/4 and 1 at the same point of

a number line diagram.

#### **Measurement and Data**

**3.MD.B.4** Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch. Show the data by making a line plot, where the horizontal scale is marked off in appropriate units — whole numbers, halves, or quarters.

#### Geometry

**3.G.A.2-** Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole

## **Mathematical Practices Focus**

1. Make sense of problems and persevere in solving them.