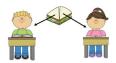
## Fractions - Learning Progressions & Resources - Grades 1-3

## **Grade 1**

- Equal Shares
- Partitioning shapes into halves and quarters

one-half





one-fourth





Equal Sharing problems are a great way to introduce fractions.

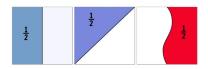
## **Grade 2**

- Equal Shares
- Partitioning shapes into halves, thirds, and fourths



Connect fractions to geometry standards.

Recognize that equal shares of identical wholes need not have the same shape.



### **Resources:**

- I Spy Activity
- Equal Shares Recording Sheets
- Same But Different Fraction Talks
- Unitizing with Pattern Blocks
- 12 Math Rules That Expire
- <u>If..Then..Think!</u>
- Sharing Sandwiches



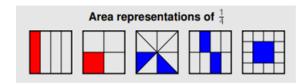
**NCTM Article** 

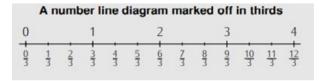


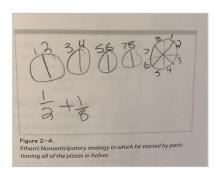
**Progressions Video** 

#### **Grade 3**

- Fraction notation first introduced
- Unit fractions (sums)
- Comparing fractions with models
- The importance of specifying the whole.







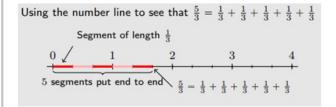
Equal Sharing problems can increase in rigor to explore multiple ways to share that might use different denominators.

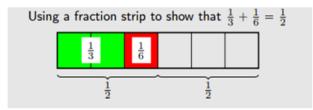


## Fractions - Learning Progressions & Resources - Grades 4-6

## **Grade 4**

- Equivalent Fractions
- Adding and Subtracting Fractions
- Composing and Decomposing Fractions
- Unitizing Activities Increase in Complexity
- Comparing Fractions without Models
- Connection to Decimals





# Virtual Manipulatives

- The Math Learning Center Pattern Blocks
- Toy Theater Fractions Strips
- Toy Theater Fraction Circles
- Toy Theater Cuisenaire Rods
- Math is Fun
- Fraction Tiles (Blank)
- Number Lines
- FREE TRIAL- Awesome Advanced Activities & Project M<sup>3</sup>

Fraction Multiplication and Division



The Unusual Baker - Task

## **Grade 5**

- Adding and Subtracting Fractions (both fractions need to be reexpressed)
- Connect fractions with division
- Multiplication as scaling



 $\frac{3}{5} \times \frac{3}{4}$ 

## **Grade 6**

- Fractions, decimals, and percents
- Rational numbers less than one
- Ratios

**Proportional Reasoning** 

 Multiplication and division of mixed numbers





$$\frac{6}{25} = \frac{24}{100}$$

$$\frac{1}{4} = \frac{25}{100}$$

