

TEKS Cluster: Fractions

TEKS Subcluster: Representation of Fractions

Student Expectations: 3.3(A), 3.3(B), 3.3(E), 3.7(A)

Activities Summary: This subcluster introduces students to representing fractions with a number, called a *fraction*. Students begin the activities by modeling and identifying the whole. They partition the whole into equal-size fractional parts to determine the denominator and determine the number of parts under discussion to find the numerator. This subcluster may be divided into two topics: **Partitioning Wholes** and **Partitioning to Solve Problems**.

Activity Title + Student Expectations	Activity Topic + Information/Notes	Type			Delivery		
		new learning	intervention	practice	teacher-facilitated	small groups	stations
Partitioning Wholes							
Parts of a Whole 1: Denominators of 2, 4, and 8 3.3(A)	Represent Fractions Using Area Models and Strip Diagrams This activity contains two sets of examples and student pages with the same problems, but different models. Set 1 includes fraction circles or squares. Set 2 includes strip diagrams. Students make a concrete model, partition a pictorial model, tell the parts shaded and the number of equal-size parts, then write the fraction using numbers and words.	✓	✓		✓		
Parts of a Whole 2: Denominators of 2, 4, and 8 3.3(A)	Represent Fractions Using Set Models This activity includes set models and contains the same problems as Parts of a Whole 1: Denominators of 2, 4, and 8 . Students make a concrete model, partition a pictorial model, tell the parts shaded and the number of equal-size parts, then write the fraction using numbers and words.	✓	✓		✓		
Parts of a Whole 3: Denominators of 2, 3, 4, 6, and 8 3.3(A)	Represent Fractions Students choose a pictorial model to match a problem situation, partition, and shade the model.	✓	✓		✓		
Line Them Up 3.3(B), 3.7(A)	Represent Fractions on Number Lines; Denominators of 2, 3, 4, 6, and 8 Students use the Cuisenaire rods on number lines with different size wholes to determine the fraction represented by a point and shade the number line to represent the fraction.	✓	✓		✓		
Partitioning to Solve Problems							
Meal Deals 3.3(E)	Solve Problems Involving Partitioning Students partition pictorial models to solve problems where the answer is a unit fraction.	✓			✓		
Xrapox Visits Earth 3.3E	Solve Problems Involving Partitioning Students partition pictorial models to solve problems where the answer is a fraction or mixed number.	✓			✓		