

I. What is a fraction?



Lesson Objective: We will be able to define a fraction by explaining the meaning of its top and bottom parts.

1. Explore: Take 5 minutes to explore the sim before beginning this worksheet.

First Screen: Intro

Keep the "Max" button set to 1.

2. Choose a representation and make a fraction. Then write and sketch the fraction.

Fraction Name:	
Sketch/Drawing:	

3. Increase or decrease the top part of the fraction. What happens? Write and sketch the new fraction.

Fraction Name:	
Sketch/Drawing:	

4. Go back to your original fraction (from #2). Increase or decrease the bottom part of the fraction. What happens? Write and sketch the new fraction.

Fraction Name:	
Sketch/Drawing:	

5. Try different representations of the fractions above. Observe how the amount changes when the numerators & denominators are increased or decreased.

6. Think-Pair-Share:



- What do you notice about the size of the pieces in any given fraction?
- How would you describe the top part of a fraction? How does changing the top number change the amount? Do you and your partner agree on the meaning of the top part?
- How would you describe the bottom part of a fraction? How does changing the bottom number of a fraction change the amount? Do you and your partner agree on the meaning of the top part?

Second Screen: Build a Fraction

7. Click on the second tab. Select "Level 1" in the top row to begin the activity. Using your knowledge of the top/bottom parts of a fraction, build fractions that match the numeric representations.