

**Day 7: Closest to 0, 1/2, or 1** (adopted from *Teaching Mathematics* by Marilyn Burns)

**Lesson Target:**

- Fractions may be compared using  $\frac{1}{2}$  as a benchmark
- Equivalent Fractions

Process	Activities/Expected Students' responses	Teacher's Support
Understand the Goal	<b>Which fraction is closest to 0, 1/2, or 1?</b>	
Explore/ Investigate/Solve	<p><b>Introduce/Model</b></p> <ol style="list-style-type: none"> <li>1. Roll two dies</li> <li>2. A smaller number is a numerator and a bigger number is a denominator</li> <li>3. Discuss if this fractions is close to 0, 1/2, or 1</li> <li>4. Record the discussion result on the number line with a partner</li> <li>5. Continue taking turns till 10<sup>th</sup> time each.</li> </ol> <p><b>Play <i>Closest to 0, 1/2, or 1</i></b> Ex) <b>T:</b> What fraction is close to <math>\frac{1}{2}</math>? <b>S:</b> <math>\frac{2}{4}</math> is exactly the same according to the fraction kit. <b>S:</b> I know <math>\frac{1}{2}</math> and <math>\frac{2}{4}</math> are equivalent fractions</p> <p><b>Share/ Discuss</b> the result in class</p> <p><b>Analyze</b> the result and <b>Discuss</b> <b>T:</b> Which fraction is the close 0, 1/2 or 1? <b>T:</b> What was the equivalent fraction as <math>\frac{1}{2}</math>? <b>T:</b> Do you see some rules among these fractions?</p>	<p><b>Provide</b> 2 cubes Fraction kit</p> <p><b>Facilitate/ Support</b> a conversation</p> <p><b>Record</b> on the number line in the class chart</p>
Conclude	<b>Journal Entry: What happens to the relationship between denominator and numerator when the fraction is closer to 0, 1/2, and 1?</b>	<b>Encourage</b> to check their fraction kit to ensure this rule is visually proved.

**Assessment:**

- **Play *Closest to 0, 1/2, or 1*** accurately. ex) exchange correctly
- **Explain** how the relationship between the numerator and the denominator will change when it gets closer to 0,  $\frac{1}{2}$ , or 1
- **Describe** the equivalent fraction of 1 and  $\frac{1}{2}$  with the words (numerator & denominator), fraction kit, and picture.
- **Represent** some examples of equivalent fractions of  $\frac{1}{2}$