

Comparing and
Lesson Title: Ordering Fractions **Designer:** Robin Carden
Discipline: Math **Grade Level:** 4-5

Activity 1: Doubling Numerators and Denominators
(Appropriate for *AFTER* the Broadcast Lesson)

Activity Goal: Understand the meaning of a numerator and denominator in a fraction.

Targeted Math Skills: Comparing and ordering fractions.

Materials: Paper and pencil.

Steps:

1. Answer the following questions with examples:
 - a. How does the value of a fraction change when you double the numerator?
 - b. How does the value of a fraction change when you double the denominator?
2. Draw models to help illustrate your answer.

Resource: (Illustrative Mathematics) - <http://tasks.illustrativemathematics.org/content-standards/4/NF/A/2/tasks/183>

Activity 2: Sharing Pies
(Appropriate for *AFTER* the Broadcast Lesson)

Activity Goal: Determine which fraction is larger.

Targeted Math Skills: Comparing and ordering fractions.

Materials: “Sharing Pies” - <https://tinyurl.com/4v3chtd9>

Steps:

1. Use models to determine if Annabelle is correct in saying in her assessment that both pies have the same amount left.

Resource: (HCPSS) - <https://hcpss.instructure.com/courses/107/pages/4-dot-nf-dot-2-about-the-math-learning-targets-and-rigor>

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Additional Resources for Lesson-Related Extension Activities:

- **Student-Facing**
 - Fraction Song: Numerators (Mr. R's Songs for Teaching) - <https://www.youtube.com/watch?v=vWaNDqcQIsA>
 - Fraction Song: Denominators (Mr. R's Songs for Teaching) - <https://www.youtube.com/watch?v=zodjg9aOiHo>
- **Teacher-Facing**
 - Grade 4 (4.NF.2) About the Math, Learning Targets, and Rigor (HCPSS) - <https://hcpss.instructure.com/courses/107/pages/4-dot-nf-dot-2-about-the-math-learning-targets-and-rigor>
 - Grade 4, Number and Operations--Fractions, Extend Understanding of Fraction (Illustrative Mathematics) - <http://tasks.illustrativemathematics.org/content-standards/4/NF/A/2/tasks>