

Lesson Title: Fractions as Division Designer: Jason Lineberger  
Discipline: Math Grade Level: 4-5

**Activity 1:** Fraction Circles - Representing Division  
(Appropriate for *AFTER* the Broadcast Lesson)

**Activity Goal:** Practice representing division as fractions.

**Targeted Math Skills:** Division

**Materials:** Fraction circles or virtual fraction circles.

**Steps:**

1. First, watch the demonstration video posted here: [PBS Learning Media](#)
2. Distribute either purchased fraction circles, or utilize these free fraction circle resources:
  - a. Printable fraction circles - [Class Playground](#) or
  - b. Virtual fraction circles - [Toy Theatre](#)
3. As demonstrated in the video, call out a division problem and have students represent it with their fraction circles. Start with something simple, like 1 divided by 5, then move on to increasing the numerator. Students should quickly see, through hands-on practice, the relationship between fractions and division!

**Activity 2:** Speed Drill - Fractions as Division  
(Appropriate for *AFTER* the Broadcast Lesson)

**Activity Goal:** Quickly write division problems as fractions.

**Targeted Math Skills:** Division, understanding fractions.

**Materials:** Division problem sheet and writing material.

**Steps:**

1. Start with a worksheet of division problems - [Education.com](#)
2. After watching the Fractions as Division: lesson, the goal is to quickly write division problems as fractions.
3. The teacher will call out the problems, and students will quickly write down those problems as fractions.

**Bonus Challenge:** the teacher calls out the problem using terms like “dividend” and “divisor” which students will have to understand correspond to “denominator” and “numerator” in fractions.

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## Additional Resources for Lesson-Related Extension Activities:

- **Student-Facing**
  - Understanding Fractions as Division (Khan Academy) - <https://www.khanacademy.org/math/cc-fifth-grade-math/divide-fractions/imp-fractions-as-division/v/fractions-as-division>
  - Fractions as Division (Khan Academy) - <https://www.youtube.com/watch?v=DIIL03xgGKY>
  - Fractions are Division (Math Antics) - <https://www.youtube.com/watch?v=3xwDryouw6o>
- **Teacher-Facing**
  - Video with lesson and practice problems (Online Math Learning) - <https://www.onlinemathlearning.com/fractions-as-division-5nf3.html>
  - Interpreting fractions as division (Achieve the Core/Tinker) - <https://achievethecore.org/page/2992/interpreting-fractions-as-division-tinker>