

Algebra/Geometry Institute Summer 2006

Lesson Plan 1: Comparing fractions

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School: Ruleville Central Elementary, Ruleville, Mississippi

Grade Level: 4th - 5th

1. Teaching Objective (s)

The student will compare and order fractions.

2. Instructional Activities:

Teacher will divide students into small groups. Students will use fraction bars so that they will have a concrete model for comparison. Students will then use them to find out which is larger:

$$\frac{2}{3} \text{ or } \frac{3}{4}$$

$$\frac{3}{4} \text{ or } \frac{4}{5}$$

$$\frac{5}{6} \text{ or } \frac{7}{8}$$

$$\frac{2}{6} \text{ or } \frac{2}{5}$$

The teacher will ask questions on comparing and ordering fractions. Questions that may be asked:

What is the same about the two fractions?

What is different about the two fractions?

Students will use activity sheet 1 as a pictorial model to identify fractions and order them.

3. Materials and Resources

1. Reys, Robert E., & Suydam, Marilyn N., & Lindquist, Mary Montgomery (1995). Helping Children Learn Mathematics (4th Ed.). Needham Heights: Simon & Schuster.
2. The National Council of Teachers of Mathematics (2005) Mathematics Assessment a Practical Handbook.
3. Mississippi Department of Education, Mathematics Instructional Intervention Supplement
4. Fraction Bar Sheet
5. Activity Sheet 1
6. Activity Sheet 2
7. Activity Sheet 3
8. Colors
9. Ruler

4. Assessment

Students will work on activity sheet 3, comparing fractions. Students may use fraction bar sheet to assist them.

Activity Sheet 1

$\frac{1}{3}$ is _____ parts of the whole.

$\frac{2}{7}$ is _____ parts of the whole.

Which is larger, $\frac{1}{3}$ or $\frac{2}{7}$?

$\frac{2}{3}$ is _____ parts of the whole.

$\frac{5}{7}$ is _____ parts of the whole.

Which is larger, $\frac{2}{3}$ or $\frac{5}{7}$?

$\frac{1}{3}$ is _____ parts of the whole.

$\frac{3}{7}$ is _____ parts of the whole.

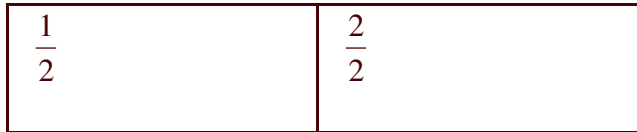
Which is larger, $\frac{1}{3}$ or $\frac{3}{7}$?

Fraction Bars

One



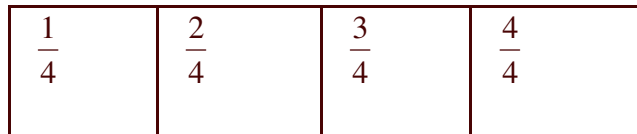
Halves



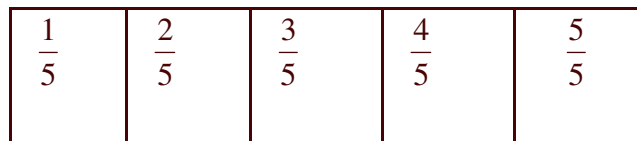
Thirds



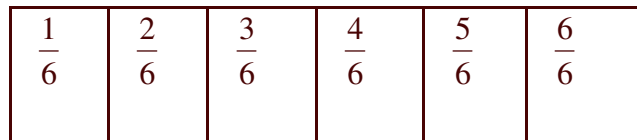
Fourths



Fifths



Sixths



Activity Sheet 3

Comparing Fractions

Compare the fractions using the Fraction Bar, then write in between the fractions $<$, $>$, or $=$ for each pair of fractions.

1. $\frac{1}{2}$ — $\frac{1}{3}$

2. $\frac{2}{3}$ — $\frac{3}{4}$

3. $\frac{3}{5}$ — $\frac{3}{4}$

4. $\frac{4}{8}$ — $\frac{1}{2}$