Compare Rationals

6th Grade Mathematics Mr. Wong

The <u>least common denominator</u> (LCD) is the least common multiple of the denominators.

Example 1: Compare. Write <, >, or =. $\frac{5}{6} \ge \frac{7}{10}$

Multiply to find a common denominator.

 $6 \cdot 10 = 60$ $\frac{5}{6} \cdot \frac{10}{10} = \frac{5 \cdot 10}{6 \cdot 10} = \frac{50}{60}$ $\frac{7}{10} \cdot \frac{6}{6} = \frac{7 \cdot 6}{10 \cdot 6} = \frac{42}{60}$ $\frac{50}{60} > \frac{42}{60}, \text{ so } \frac{5}{6} > \frac{7}{10}$ Multiply 6 and 10 to finda common denominator. Write the fractions with a common denominator. Compare the fractions.

Example 2 Compare. Write <, >, or =. $\frac{2}{3} < \frac{4}{5}$

Find the least common denominator.

2	_5 _	2•5	_ 10
3	5	3•5	15
4	3_	4•3	_ 12
5	3	5•3	15
10 <	12	so <u>2</u> <	4
15	15 ′	3	5

Write the fractions with a common denominator. Compare the fractions.