

MY Homework

Lesson 6

Compare Fractions

Homework Helper



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Compare $\frac{4}{5}$ and $\frac{5}{6}$ using the least common denominator.

1 Find the LCM of the denominators.

5: 5, 10, 15, 20, 25, 30 ...

6: 6, 12, 18, 24, 30 ...

The LCM of 5 and 6 is 30.

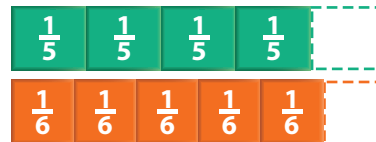
2 Find equivalent fractions with a denominator of 30.

$$\frac{4}{5} = \frac{4 \times \boxed{6}}{5 \times \boxed{6}} = \frac{24}{30} \quad \frac{5}{6} = \frac{5 \times \boxed{5}}{6 \times \boxed{5}} = \frac{25}{30}$$

3 Compare the numerators.

Since $24 < 25$, then $\frac{24}{30} < \frac{25}{30}$. So, $\frac{4}{5} < \frac{5}{6}$.

Check The models show that $\frac{4}{5} < \frac{5}{6}$.



Practice

Compare each pair of fractions by drawing models or using the LCD. Use the symbols $<$, $>$, or $=$.

1. $\frac{3}{4}$  $\frac{7}{8}$

2. $\frac{1}{3}$  $\frac{3}{9}$

3. $\frac{3}{4}$  $\frac{2}{3}$




Problem Solving

4. A survey showed that $\frac{7}{15}$ of a class liked soccer and $\frac{2}{5}$ liked baseball. Which sport was liked less?
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5. The fifth graders were given sandwiches for lunch during their field trip. Nathan ate $\frac{5}{6}$ of his sandwich, Leroy ate $\frac{7}{8}$ of his sandwich, and Sofia ate $\frac{5}{8}$ of her sandwich. Who ate the greatest amount of their sandwich?
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6. **Mathematical PRACTICE**  **Use Symbols** Replace \blacksquare with a number to make $\frac{\blacksquare}{24} > \frac{1}{4}$ a true statement.
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Vocabulary Check



7. Fill in the blank with the correct word to complete the sentence.
The least common denominator (LCD) is the least common multiple of the _____ of the fractions.

Test Practice

8. Eighteen out of 24 of Emil's CDs are country music. Five out of 8 of Imani's CDs are country music. Which is a true statement?
- (A) Half of each CD collection consists of country music.
(B) Less than half of each CD collection consists of country music.
(C) Emil has a greater fraction of country music than Imani.
(D) Imani has a greater fraction of country music than Emil.