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4.NF.A.2 Compare Fractions

4.NF.A.2: Compare two fractions with different numerators and different denominators

1. Use a model or number line to compare the given fractions below and write <, >, or = for each ☐.

   a. $\frac{5}{10}$ ☐ $\frac{6}{10}$

   b. $\frac{7}{8}$ ☐ $\frac{4}{8}$

   c. $\frac{3}{4}$ ☐ $\frac{6}{8}$

   d. $\frac{3}{12}$ ☐ $\frac{4}{12}$

2. Use the given fraction bars to order $\frac{3}{5}$, $\frac{5}{7}$, $\frac{7}{10}$ from greatest to least.

1/5	1/5	1/5	1/5	1/5					
1/7	1/7	1/7	1/7	1/7	1/7	1/7			
1/10	1/10	1/10	1/10	1/10	1/10	1/10	1/10	1/10	1/10

Solution:

3. Use number lines to order the fractions from greatest to least.

   a. $\frac{6}{10}$, $\frac{4}{10}$, and $\frac{2}{3}$

   b. $\frac{7}{16}$, $\frac{5}{8}$, and $\frac{4}{10}$

   c. $\frac{3}{4}$, $\frac{6}{9}$, and $\frac{6}{10}$

   d. $\frac{6}{12}$, $\frac{5}{6}$, and $\frac{5}{8}$

Solution:

a.

b.

c.

d.

4. A group of friends ate pizza together. Jam ate $\frac{1}{4}$ of the pizza, Jake ate $\frac{2}{5}$ of the pizza and Bob ate $\frac{2}{7}$ of the pizza. Order the pizza that Jam, Jake and Bob ate from greatest to least.

Solution:

5. True or False? If two fractions have like numerators, the fraction with a smaller denominator will be smaller than the other fraction. Explain.

Solution:

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Answer Key

4.NF.A.2: Compare two fractions with different numerators and different denominators

1. Use a model or number line to compare the given fractions below and write <, >, or = for each ☐.

   a. $\frac{5}{10}$ < $\frac{6}{10}$

   b. $\frac{7}{8}$ > $\frac{4}{8}$

   c. $\frac{3}{4}$ = $\frac{6}{8}$

   d. $\frac{3}{12}$ < $\frac{4}{12}$

2. Use the given fraction bars to order $\frac{3}{5}$, $\frac{5}{7}$, $\frac{7}{10}$ from greatest to least.

1/5	1/5	1/5	1/5	1/5					
1/7	1/7	1/7	1/7	1/7	1/7	1/7			
1/10	1/10	1/10	1/10	1/10	1/10	1/10	1/10	1/10	1/10

$\frac{5}{7}$, $\frac{7}{10}$, $\frac{3}{5}$

3. Use number lines to order the fractions from greatest to least.

   a. $\frac{6}{10}$, $\frac{4}{10}$, and $\frac{2}{3}$

   b. $\frac{7}{16}$, $\frac{5}{8}$, and $\frac{4}{10}$

   c. $\frac{3}{4}$, $\frac{6}{9}$, and $\frac{6}{10}$

   d. $\frac{6}{12}$, $\frac{5}{6}$, and $\frac{5}{8}$

   a. $\frac{2}{3}$, $\frac{6}{10}$, $\frac{4}{10}$

   b. $\frac{5}{8}$, $\frac{7}{16}$, $\frac{4}{10}$

   c. $\frac{3}{4}$, $\frac{6}{9}$, $\frac{6}{10}$

   d. $\frac{5}{6}$, $\frac{5}{8}$, $\frac{6}{12}$

4. A group of friends ate pizza together. Jam ate $\frac{1}{4}$ of the pizza, Jake ate $\frac{2}{5}$ of the pizza and Bob ate $\frac{2}{7}$ of the pizza. Order the pizza that Jam, Jake and Bob ate from greatest to least.

   $\frac{2}{5}$, $\frac{2}{7}$, $\frac{1}{4}$

5. True or False? If two fractions have like numerators, the fraction with a smaller denominator will be smaller than the other fraction. Explain.

   False

   ($\frac{2}{3}$ is greater than $\frac{2}{10}$)