Comparing Fractions

Objectives: 4.NF.A.2

Compare two fractions using a variety of techniques.

Warm-up Problem: Use the numbers below to make the number 4 by combining them with appropriate mathematical symbols. You can rearrange them in any way you want, but be sure to use all 4 numbers.

1, 3, 5, 7

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1. Compare each pair of fractions by using a symbol "=", ">", or "<".

- $\dfrac{1}{8}$ $\dfrac{1}{10}$

- $\dfrac{3}{7}$ $\dfrac{5}{7}$

- $\dfrac{9}{17}$ $\dfrac{4}{17}$

- $\dfrac{3}{5}$ $\dfrac{3}{8}$

- $\dfrac{5}{9}$ $\dfrac{5}{7}$

- $\dfrac{8}{13}$ $\dfrac{9}{12}$

- $\dfrac{3}{8}$ $\dfrac{20}{33}$

- $\dfrac{21}{22}$ $\dfrac{9}{10}$

- $\dfrac{3}{11}$ $\dfrac{5}{13}$

- $\dfrac{5}{12}$ $\dfrac{11}{25}$

- $\dfrac{25}{6}$ $\dfrac{32}{7}$

- $\dfrac{3}{4}$ $\dfrac{9}{12}$

1. Write each fraction as a mixed number.

- $\dfrac{2}{17}$ $\dfrac{2}{7}$

- $\dfrac{1}{3}$ $\dfrac{2}{7}$

- $\dfrac{4}{5}$ $\dfrac{5}{6}$

- $\dfrac{3}{4}$ $\dfrac{2}{5}$

- $\dfrac{6}{12}$ $\dfrac{13}{26}$

- $\dfrac{8}{13}$ $\dfrac{8}{15}$

- $\dfrac{7}{24}$ $\dfrac{5}{24}$

- $\dfrac{2}{5}$ $\dfrac{5}{9}$

- $\dfrac{5}{15}$ $\dfrac{24}{60}$

- $\dfrac{100}{8}$ $\dfrac{66}{5}$

- $\dfrac{7}{10}$ $\dfrac{21}{32}$

- $\dfrac{101}{20}$ $\dfrac{523}{200}$

Challenge Problem: Put the following numbers in increasing order from least to greatest:

$$\dfrac{3}{5}, \dfrac{1}{2}, \dfrac{6}{11}, \dfrac{5}{9}, \dfrac{4}{7}$$