

Developing Fraction Number Sense and Reasoning on the Number Line

Nadine Bezuk (nbezuk@mail.sdsu.edu)
& Steve Klass (sklass@mail.sdsu.edu)

2014 NCTM Annual Conference, New Orleans

Strategies for Ordering and Comparing Fractions:

$\frac{5}{8}, \frac{3}{8}, \frac{6}{8}$ $\frac{5}{7}, \frac{3}{7}, \frac{6}{7}$ Fractions with the same denominators can be compared by comparing their numerators (number of pieces).

$\frac{4}{8}, \frac{4}{5}, \frac{4}{6}$ $\frac{4}{10}, \frac{4}{37}, \frac{4}{8}$ Fractions with the same numerator can be compared by comparing the size of their pieces

$\frac{3}{4}, \frac{2}{5}, \frac{1}{2}$ $\frac{4}{9}, \frac{8}{15}, \frac{1}{2}$ Fractions close to a benchmark can be compared by finding their distance from a benchmark.

$\frac{7}{8}, \frac{3}{4}, \frac{2}{3}$ $\frac{99}{100}, \frac{6}{7}, \frac{15}{16}$ Fractions close to one can be compared by finding their distance from one.

“Clothesline” Fractions Activity:

Set 1:

$\frac{1}{2}, \frac{3}{4}, 1$

Set 2:

$1\frac{2}{3}, \frac{7}{4}$

Set 3:

$\frac{1}{3}, \frac{3}{4}, \frac{5}{8}$

Set 4:

$\frac{3}{5}, \frac{4}{9}, \frac{3}{4}$

Set 5:

$\frac{1}{8}, \frac{7}{8}, \frac{11}{12}$

Set 6:

$\frac{1}{4}, \frac{3}{13}, \frac{6}{27}$

Email Nadine at address above for copies of slides and “fraction tents”.

FREE online fraction numberline, courtesy of Conceptua™ Math is available at www.conceptuamath.com. For more information, contact them at info@conceptuamath.com