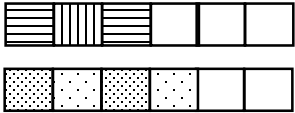

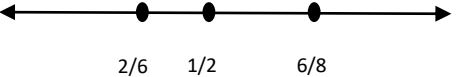
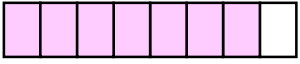

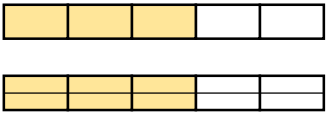


Comparing Fractions

Method	Example
<p>Same Denominator: If the denominators are the same, compare the numerators (when comparing same size wholes).</p>	$\frac{3}{6} < \frac{4}{6}$ 
<p>Same Numerator: If the numerators are the same, compare the denominators. When comparing same size wholes, the larger the denominator, the smaller the piece. The smaller the denominator, the larger the piece.</p>	$\frac{3}{5} > \frac{3}{8}$  <p>These fractions have the same # of parts, but the parts are different sizes.</p>
<p>Less than 1/2 or more than 1/2: Compare to see if a fraction is less or more than 1/2 (2/4, 3/6, 4/8, 5/10, 6/12, etc.). Place the fraction on a number line.</p>	$\frac{2}{6} < \frac{6}{8}$ 
<p>Unit fractions from one whole: Determine how far away from a whole the fraction is. The larger the denominator, the smaller the piece. Unit fractions close to one whole would be 3/4, 4/5, 5/6, 7/8, 9/10, 10/12, etc.</p>	$\frac{7}{8} > \frac{5}{6}$ <p>7/8 is 1/8 away from a whole. </p> <p>5/6 is 1/6 away from a whole. </p>
<p>Find a common denominator: Determine a common multiple of both denominators which can be the new denominator. Multiply each fraction by a representation of 1 (5/5, 3/3, etc.) Or use pictures to show equivalent fractions.</p>  <p style="text-align: center;">$\frac{3}{5} = \frac{6}{10}$</p>	$\frac{2}{3} > \frac{3}{5}$ <p>$\frac{2}{3} \times \frac{5}{5} = \frac{10}{15}$ 2/3 and 10/15 are equivalent.</p> <p>$\frac{3}{5} \times \frac{3}{3} = \frac{9}{15}$ 3/5 and 9/15 are equivalent.</p> <p>Since $\frac{10}{15} > \frac{9}{15}$, then $\frac{2}{3} > \frac{3}{5}$</p>
<p>Cross Multiply:</p> <ol style="list-style-type: none"> 1) Multiply first numerator with 2nd denom. 2) Multiply 2nd numerator with 1st denom. 3) Compare numbers. 4) If #1 is larger, first fraction is larger. 5) If #2 is larger, 2nd fraction is larger. 	$\frac{2}{3} > \frac{3}{5}$ <ol style="list-style-type: none"> 1) $2 \times 5 = 10$ 2) $3 \times 3 = 9$ 3) $10 > 9$, therefore $\frac{2}{3} > \frac{3}{5}$ <p>Or multiply denominators to get a common denom. Compare both fractions: $\frac{10}{15} > \frac{9}{15}$</p>
<p>Convert to Decimals: Divide the numerator by the denominator. Or make 100 the common denominator.</p>	$\frac{3}{4} < \frac{81}{100}$ $\frac{3}{4} = .75$ $\frac{81}{100} = .81$ <p>$.75 < .81$ so then $\frac{3}{4} < \frac{81}{100}$</p>