SOL 6.2 – Fractions

The Meaning of Fractions

• A fraction names part of a whole

Ex. Numerator Part Denominator Whole

Equivalences

- All fractions have other fractions that are equal to them.
- Refer to your color coded number lines.
- You can find equivalent fractions by:
 - looking at the size of the fraction
 - multiplying by a number
 - or dividing by a number (GCF)

$0, \frac{1}{2}$, and 1 as Benchmarks

- This is a form of estimating fractions.
- Seeing if a fraction is closest to 0, $\frac{1}{2}$, or 1
- This is a form of estimating fractions. Seeing if a fraction is closest to 0, $\frac{1}{2}$, or 1 It is close to 0, if the numerator is close to 0. $\binom{0}{7}$ It is close to 1, if the numerator is close to the denominator. It is close to $\frac{1}{2}$, if the numerator is close to half of the denominator. Remember that odd denominators will have a numerator of .5 $\binom{5}{10}$ or $\binom{4.5}{9}$ **Alities** Less than Less than or equal to Greater than or equal to Breater than or equal to

Inequalities

- < Less than
- ≤ Less than or equal to
- > Greater than
- ≥ Greater than or equal to

Comparing and Ordering Fractions

- Use the benchmarks $(0, \frac{1}{2}, \text{ and } 1)$
- If the denominators are the same order the numerators. $\binom{1}{8}, \frac{2}{8}, \frac{3}{8}, \frac{4}{8}, \frac{5}{8}, \frac{6}{8}, \frac{7}{8}, \frac{8}{8}$
- If the numerators are the same the smaller the denominator the larger the part. (1/12, 1/10, 1/9, 1/8, 1/6, 1/5, 1/4, 1/2)
- If both the numerators and denominators are different, try the benchmarks first, or change the fractions to decimals by dividing and then compare or order them as decimals.
- ascending goes up or gets bigger
- Descending goes down or gets smaller