## SOL 6.2 - Fractions

## The Meaning of Fractions

- A fraction names part of a whole

Ex. $\frac{\text { Numerator }}{\text { Denominator }}=\frac{\text { Part }}{\text { Whole }}$

## 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
- It is close to 0 , if the numerator is close to $0 .(\% / 7)$
- It is close to 1 , if the numerator is close to the denominator. $(3 / 3)$
- It is close to $1 / 2$, if the numerator is close to half of the denominator. Remember that odd denominators will have a numerator of $.5 \quad(5 / 10)$ or (4.5/9)


## Inequalities

< Less than
$\leq$ Less than or equal to
> Greater than
$\geq$ Greater than or equal to

## Comparing and Ordering Fractions

- Use the benchmarks ( $0,1 / 2$, and 1 )
- If the denominators are the same order the numerators. $(1 / 8,2 / 8,3 / 8,4 / 8,5 / 8,6 / 8,7 / 8,8 / 8)$
- 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

