SOL 6.2 – Percents

The Meaning of Percents

Per Means **Divide by**	**Cent** Means **100**	**Percent** Means **Divide by 100**

Seven **Divided by** **100**	$\frac{7}{100}$	Seven **Per** **Cent**	7%

Changing: Decimals to Percents

1. The decimal need to be written to the hundredths place, that number is the percent
2. SHORTCUT: move the decimal two places to the right

Method #1

$0.62 = {}^{62}/_{100} = 62\%$

$0.07 = {}^{7}/_{100} = 7\%$

$0.7 = {}^{70}/_{100} = 70\%$

Method #2

$0.125 = 12.5\%$

$0.375 = 37.5\%$

$0.625 = 62.5\%$

Changing: Repeating Decimals to Percents

- Move the decimal two places to the right, and add on the repeating number as needed.

$\frac{1}{3} = 0.\overline{33} = 33\%$

$= \overline{33}\%$

$= 33.\overline{3}\%$

$= 33\frac{1}{3}\%$

$\frac{2}{3} = 0.\overline{66} = 67\%$

$= \overline{66}\%$

$= 66.\overline{6}\%$

$= 66\frac{2}{3}\%$

Changing: Fractions to Percents

1. If the denominator is 100 then the numerator is the percent.
2. If the denominator is a factor of 100, multiply the whole fraction to make a denominator of 100, then the numerator is the percent.
3. If the fraction does not have a denominator that is a factor of 100, divide and then change to a percent.

Method #1	Method #2	Method #3
$\frac{85}{100} = 85\%$	$\frac{3 \times 10}{10 \times 10} = \frac{30}{100}$	$\frac{3}{6} = 0.50 = 50\%$
$\frac{23}{100} = 23\%$	$\frac{4 \times 4}{25 \times 4} = \frac{16}{100}$	$\frac{4}{9} = 0.44 = 44\%$

Inequalities

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

Comparing and Ordering

- ascending - goes up or gets bigger
- Descending - goes down or gets smaller