

1.1 Converting Fractions  $\rightarrow$  decimals

$$\frac{3}{10} = .3$$

$$\frac{42}{100} = .42$$

$$\frac{1}{2} = .5$$

$$\frac{5}{10} = \frac{1}{2} = .5$$

$\rightarrow$  Benchmark  
Fractions  
 $\checkmark$  Just know!

$$\frac{5}{100} = .05$$

$$\frac{3}{4} = .75$$

$$\frac{4}{5} = .8 \quad \text{or} \quad \frac{4.2}{5.0} \frac{8}{10}$$

$$\frac{3}{8} = .375$$

$$\begin{array}{r} .8 \\ 5 \overline{)4.0} \\ \underline{40} \end{array}$$

$$\begin{array}{r} 0.375 \\ 8 \overline{)3.000} \\ \underline{24} \phantom{00} \\ 60 \phantom{0} \\ \underline{56} \phantom{0} \\ 40 \end{array}$$

$\star$  when in doubt  
divide

$$\frac{6}{11} = .54$$

$$\frac{6}{11} = .545$$

$$\frac{6}{12} = \frac{1}{2} = .50$$

$$\begin{array}{r} .545 \\ 11 \overline{)6.000} \\ \underline{55} \phantom{00} \\ 50 \phantom{0} \\ \underline{44} \phantom{0} \\ 60 \end{array}$$

$$2\frac{5}{6} = 2.83$$

$$4\frac{3}{10} = 4.3$$

$$\frac{43}{10} = 4.3$$

$$6\frac{2}{100} = 6.02$$

$$\frac{2}{16} = \frac{1}{8} = .125$$

$$\begin{array}{r} 0.125 \\ 8 \overline{)1.000} \\ \underline{8} \phantom{00} \\ 20 \phantom{0} \\ \underline{16} \phantom{0} \\ 40 \end{array}$$

$$6\frac{2}{3} = 6.\overline{66}$$



## decimals to percents

(REVIEW)

 $.23$ 

- multiply by 100 <sup>or</sup>
- move decimal 2 times to the right, answer will get bigger.

$$\underbrace{.23} = 23\%$$



$$\underbrace{.63} = 63\%$$



$$\underbrace{.053} = 5.3\%$$



$$\underbrace{36.09} = 3609\%$$

$$\underbrace{.89} = 89\%$$

$$\underbrace{1.40} = 140\%$$

$$\underbrace{.03} = 3\%$$

42%

same as 42.

$$\underbrace{42\%} = .42$$



$$\underbrace{5283\%} = 52.83$$

- divide by 100
- move decimal to the left

$$\underbrace{23\%} = .23$$



$$\underbrace{17.6\%} = .176$$

percents to decimals