

## 2.2 Percents and Fractions

***Objective: To convert fractions & percents***



# Percent to Decimal

Percent (%) – a comparison of a number to “per hundred” a base of 100

Write the percent as a fraction by putting the percent over 100 and simplify.

$$1) 40\% \longrightarrow \frac{40}{100} = \frac{2}{5}$$

$$2) 18\% \longrightarrow \frac{18}{100} = \frac{9}{50}$$

# Fraction to Percent

If the denominator can easily be made into 100, then make an equivalent fraction with 100 as the denominator. The new numerator is the percent.

$$3) \frac{3}{10} \frac{10}{10} = \frac{30}{100} \rightarrow 30\%$$

$$4) \frac{4}{25} \frac{4}{4} = \frac{16}{100} \rightarrow 16\%$$

$$5) \frac{17}{20} \frac{5}{5} = \frac{85}{100} \rightarrow 85\%$$

# Fraction to Percent

If the denominator cannot be made into 100, divide to get a decimal, then multiply by 100. and attach a percent sign.

$$6) \quad \frac{1}{8}$$
$$0.125$$

↻

$$12.5\%$$

$$8 \overline{) 1.000}$$
$$\begin{array}{r} 0 \phantom{0} \phantom{0} \phantom{0} \\ \underline{0} \phantom{0} \phantom{0} \phantom{0} \\ 10 \phantom{0} \phantom{0} \phantom{0} \\ \underline{8} \phantom{0} \phantom{0} \phantom{0} \\ 20 \phantom{0} \phantom{0} \phantom{0} \\ \underline{16} \phantom{0} \phantom{0} \phantom{0} \\ 40 \phantom{0} \phantom{0} \phantom{0} \\ \underline{40} \phantom{0} \phantom{0} \phantom{0} \\ 0 \phantom{0} \phantom{0} \phantom{0} \end{array}$$

$$7) \quad \frac{2}{15}$$
$$0.133$$

↻

$$\approx 13.3\%$$

$$15 \overline{) 2.000}$$
$$\begin{array}{r} 0 \phantom{0} \phantom{0} \phantom{0} \\ \underline{0} \phantom{0} \phantom{0} \phantom{0} \\ 20 \phantom{0} \phantom{0} \phantom{0} \\ \underline{15} \phantom{0} \phantom{0} \phantom{0} \\ 50 \phantom{0} \phantom{0} \phantom{0} \\ \underline{45} \phantom{0} \phantom{0} \phantom{0} \\ 50 \phantom{0} \phantom{0} \phantom{0} \\ \underline{45} \phantom{0} \phantom{0} \phantom{0} \\ 5 \phantom{0} \phantom{0} \phantom{0} \end{array}$$