

11/11 8.5 Understanding Percent

A **PERCENT** is a ratio that compares a # to 100.

%

P. 395

Percent: 7%

Decimal: 0.07

Fraction: $\frac{7}{100}$

① $\frac{9}{100}$ nine one hundredths

0.09 nine hundredths

9% nine percent

② 0.39 = 39%

$\frac{39}{100}$

thirty nine
Percent

c) $\frac{32.5}{100}$ thirty two point five percent
32.5%

d) $\frac{300}{100}$ 300%

P. 395 #s 1-3

p. 395

① $0.29, 29\%, \frac{29}{100}$

② $3\%, 0.03, \frac{3}{100}$

③ $100\%, \frac{100}{100} = 1, 1.00$

To write a % as a decimal:

① Divide the value by 100

To write the % as a fraction:

① Rewrite the % using a denominator of 100.

* Simplify if possible

$$80\% = \frac{80}{100} = \frac{4}{5}$$

$$\textcircled{64.5}\% = 0.645$$
$$100 \overline{) 64.5} \qquad \frac{64.5}{100}$$

P. 396 #s 4-7

P. 396 #s 4-7

$$\textcircled{4} \quad 5\% = 0.05, \frac{5}{100} = \frac{1}{20}$$

$$\textcircled{5} \quad 75\% = 0.75 = \frac{75}{100} = \frac{3}{4}$$

$$\textcircled{6} \quad 20\% = 0.20 = \frac{20}{100} = \frac{1}{5}$$

$$\textcircled{7} \quad 3.5\% = \frac{3.5}{100} \quad ;$$

$$3.5\% = \frac{3.5}{100} \times \frac{2}{2} = \frac{7}{200} \text{ Simplified}$$

we have
to get rid
of the decimal

$$\begin{array}{r} 3.5 \\ \times 2 \\ \hline 7.0 \end{array}$$

Write $\frac{7}{200}$ as a %:

$$\frac{7}{200} \div \frac{2}{2} = \frac{3.5}{100} = 3.5\%$$

In Class:

p. 397 #s 1-22

HW: WS p. 109

#s 1-13 ALL

$$\frac{3.5}{100}$$

$$100 \overline{) 3.500} \\ \underline{-300} \\ 500$$

0.035

$$3.5\%$$