

11/14 8.6 Percents, Decimals &
Fractions

To write a fraction as a
Percent:

- ① Write fraction in equivalent form where denominator is 100.
- ② Convert by dividing.

P. 399: *equivalent* ↘

$$\textcircled{a} \frac{4}{10} \times \frac{10}{10} = \frac{40}{100} = 40\%$$

denominator ↗

$$\textcircled{b} \frac{17}{25} \times \frac{4}{4} = \frac{68}{100} = 68\%$$

#s 1-4 : 2 min.

p. 399 #s 1-4

① 75% $\frac{3}{4} \times \frac{25}{25} = \frac{75}{100}$

② 70%

③ 35%

④ 18%

To write a decimal as a percent:

- ① Write the decimal as a fraction
- ② Convert fraction to a denominator of 100.

*Note: If the denominator of a fraction is not a factor of 100, it may be easiest to write the fraction as a decimal first.

$$\text{Ex: } \textcircled{1} \quad 0.06 = \frac{6}{100} = 6\%$$

$$\textcircled{2} \quad 0.25 = \frac{25}{100} = 25\%$$

$$\textcircled{3} \quad 0.045 = \frac{45}{1000}$$

$$\frac{45}{1000} \div \frac{10}{10} = \frac{4.5}{100} = 4.5\%$$

p. 400 Ex 3

five out of eight $\frac{5}{8}$ five divided by eight = 0.625

$$\frac{625}{1000} \div \frac{10}{10}$$

$\rightarrow \frac{62.5}{100} = 62.5\%$

$$8 \overline{) 5.000}$$
$$\begin{array}{r} 625 \\ 8 \overline{) 5.000} \\ \underline{-48} \\ 20 \\ \underline{-16} \\ 40 \\ \underline{-40} \\ 0 \end{array}$$

P. 400 #s 5-8: 2 min.

⑤ 30% ⑦ $\frac{3}{8}$

⑥

$$10 \overline{) 375.0}$$
$$\begin{array}{r} 37.5 \\ -30 \\ \hline -75 \\ -70 \\ \hline 50 \end{array}$$

⑦

$$8 \overline{) 3.000}$$
$$\begin{array}{r} .375 \\ -24 \\ \hline 60 \\ -56 \\ \hline 40 \end{array}$$

⑧

$$22.5\% = \frac{375}{1000} \div \frac{10}{10} = \frac{37.5}{100}$$
$$.375 = \frac{375}{1000}$$

In class:

P. 401-402 #s 7-24

HW:

WS 8.6 p 111-112
1-24

