

3.7 Relating Fractions, Decimals and Percents

Percents are another way to write fractions and decimals.

Ex: 12%

$$= \frac{12}{100} = 0.12$$

85%

$$= \frac{85}{100} = 0.85$$

En Francais:

$$100 \text{ } \text{\$} = \$1$$

Hundred = cent

So percent literally translates to:
out of 100

Write the following as fractions and decimals:

a) 75%

$$\frac{75}{100} = 0.75$$

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

b) 8%

$$\frac{8}{100} = 0.08$$

$$= \frac{2}{25}$$

c) 157%

$$\frac{157}{100} = 1 \frac{57}{100} = 1.57$$

Strategy for converting percentages:

- Write the number over 100
- Simplify

Write the following as percentages:

a) 0.18

$$\frac{18}{100} = 18\%$$

b) 0.7

$$\frac{7 \times 10}{10 \times 10} = \frac{70}{100} = 70\%$$

c) $\frac{7}{25}$

$$\frac{7 \times 4}{25 \times 4} = \frac{28}{100} = 28\%$$

d) $\frac{21}{35}$

$$= \frac{3 \times 20}{5 \times 20} = \frac{60}{100}$$

Strategy for converting to percentage

- Write as a fraction with a denominator of 100.
- If you are stuck simplify the fraction first. Still stuck? Divide!