

6.1 a Percents and Decimals

## Percents to Decimals

- drop the percent sign and divide by 100.  
(move the decimal twice to the left)

i.e.  $23\% \rightarrow \cancel{23\%} = \boxed{0.23}$

Ex. 1  $38\% \rightarrow \cancel{38\%} = \boxed{0.38}$

Ex. 2  $107\% \rightarrow \cancel{107\%} = \boxed{1.07}$

Ex. 3  $97.3\% \rightarrow \cancel{97.3\%} = \boxed{0.973}$

## Decimals to Percents

- multiply by 100% (move decimal twice to the right and add percent sign.)

i.e.  $0.47 \rightarrow \cancel{0.47} = \boxed{47\%}$

Ex. 4  $1.23 \rightarrow \cancel{1.23} = \boxed{123\%}$

Ex. 5  $0.687 \rightarrow \cancel{0.687} = \boxed{68.7\%}$

## Fraction to Decimal

- divide numerator by the denominator

i.e.

$$\frac{3}{4} = 4 \overline{) 3.00} \\ \underline{-0} \\ 30 \\ \underline{-28} \\ 20 \\ \underline{-20} \\ 0$$

Ex. 6  $\frac{3}{8} = \boxed{0.375}$

$$8 \overline{) 3.000} \\ \underline{-24} \\ 60 \\ \underline{-56} \\ 40 \\ \underline{-40} \\ 0$$

## Fraction to Percent

- multiply by 100%

i.e.  $\frac{1}{4} \rightarrow \frac{1}{4} \cdot \frac{100\%}{1} = \frac{25\%}{1} = \boxed{25\%}$

Ex. 7  $\frac{23}{25} \rightarrow \frac{23}{25} \cdot \frac{100\%}{1} = \frac{92\%}{1} = \boxed{92\%}$

Ex. 8  $\frac{17}{20} \rightarrow \frac{17}{20} \cdot \frac{100\%}{1} = \frac{85\%}{1} = \boxed{85\%}$

HW: p. 218 #8-30 even