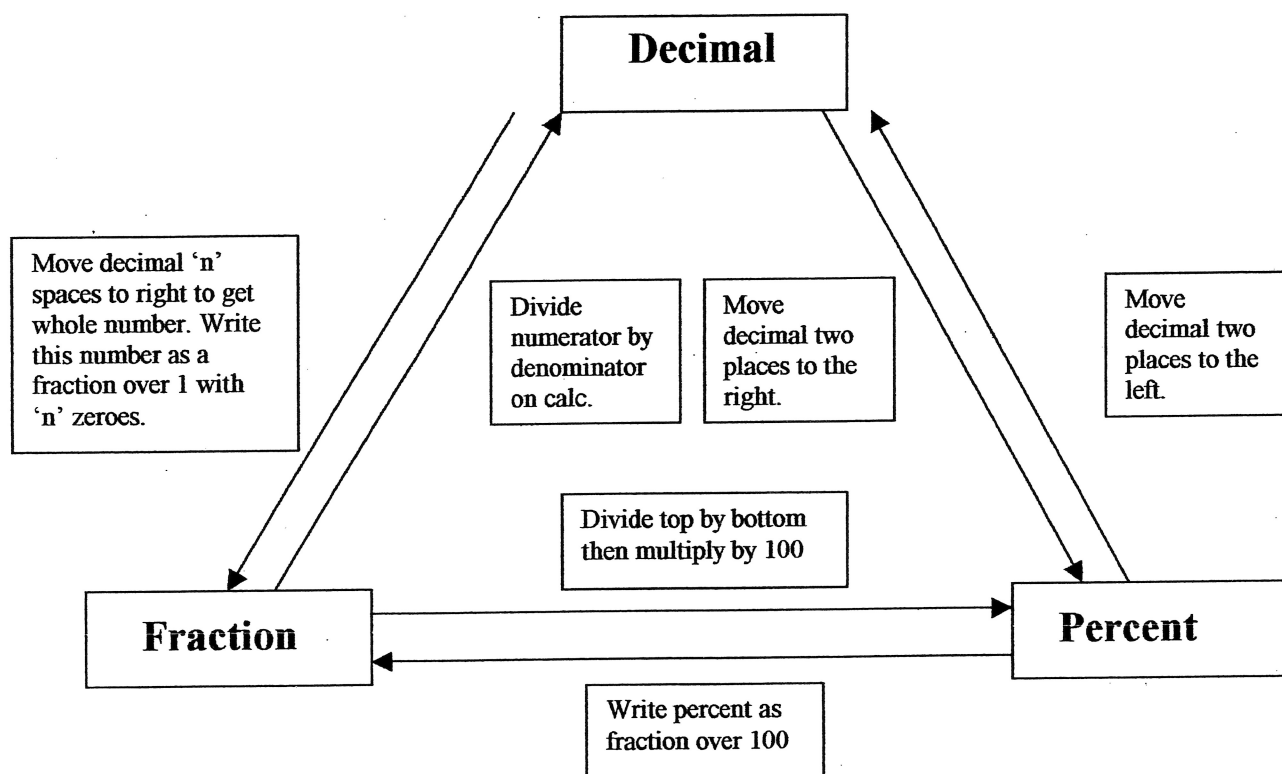


Using Percents, Decimals, and Fractions

Portions of a whole can either be expressed as a percent, a decimal, or a fraction.

1. The following schematic can be used to translate from one form to the other.



2. To calculate the fraction or percentage of some amount, change the fraction or percentage to a decimal and multiply this by the amount.

Ex:

$$\begin{aligned} \text{a) } & 15\% \text{ of } 25 \\ & = 0.15 \times 25 \\ & = 3.75 \end{aligned}$$

$$\begin{aligned} \text{b) } & 1/5^{\text{th}} \text{ of } 65 \\ & = 0.2 \times 65 \\ & = 13 \end{aligned}$$

Sample Questions

1. Rewrite the following as fractions.

a) 0.42

b) 0.8

c) 82%

2. Rewrite the following as decimals.

a) $\frac{1}{4}$

b) $\frac{2}{7}$

c) 36%

3. Rewrite the following as percents.

a) 0.24

b) 0.58

c) $\frac{3}{5}$

4. Evaluate the following

a) 78% of 120

b) $\frac{2}{3}$ rd of 27