

## Vocabulary: Part-to-part and Part-to-whole Ratios



### Vocabulary

- Decimal – a number written in the base-10 system.
  - Usually “decimal” refers to a number that contains a *decimal point*.
- Equivalent – equal in value.
  - For example,  $\frac{1}{2}$  is equivalent to 0.5 and 50% because all three quantities mean one half.
- Fraction – a number that shows the relationship between a part and a whole.
  - A fraction consists of a *denominator* (bottom number) and a *numerator* (top number).
  - A fraction is in *simplest form* when 1 is the only common factor of the numerator and denominator. For example,  $\frac{1}{4}$  is the simplest form of  $\frac{2}{8}$ .
- Percent – a ratio of a number to 100.
  - For example, 39% means 39 out of 100.
- Proportion – an equation that shows two equivalent ratios.
  - For example,  $2:3 = 6:9$  and  $\frac{1}{2} = \frac{4}{8}$  are proportions.
- Ratio – a comparison between two things by division.
  - For example, suppose there are 3 goldfish in a tank of 5 fish total. The ratio of goldfish to total fish can be written as 3 to 5, 3:5, or  $\frac{3}{5}$ .