## Vocabulary: Percents, Fractions, and Decimals

## Vocabulary

- Decimal - a number written in the base-10 system.
- Usually "decimal" refers to a number that contains a decimal point.
- A repeating decimal has a certain digit or group of digits that repeat forever. There are two ways to write repeating decimals.
- Using three dots as in $0.333 \ldots$ (the 3 repeats) and $0.454545 \ldots$ (the 45 repeats.
- Using bar notation as in $0 . \overline{3}$ (the 3 repeats) and $0 . \overline{45}$ (the 45 repeats).
- A terminating decimal has a specific number of digits. For example, 0.6, 0.79, and 0.387 are terminating decimals.
- 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.
- 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 $\frac{3}{5}$.

