

Vocabulary: Percents, Fractions, and Decimals

Wocabulary

- <u>Decimal</u> 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... (the 3 repeats) and 0.454545... (the 45 repeats.
 - \circ 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.
 - \circ For example, $\frac{1}{2}$ is equivalent to 0.5 and 50% because all three quantities mean one half.
- <u>Fraction</u> 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 $\frac{3}{5}$.

