Vocabulary: Percents, Fractions, and Decimals

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**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... (the 3 repeats) and 0.454545... (the 45 repeats.
* Using bar notation as in  (the 3 repeats) and  (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,  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,  is the simplest form of .
* 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 .