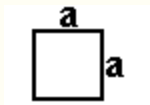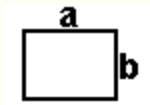## Basic Math Information

Area Formulas:

Note: "a^2" means "a squared", which is the same as "a" times "a".

Be careful!! Units count. Use the same units for all measurements

square = a^2

rectangle = a x b

circle = $pi \; x \; r^2$

$pi = \pi = 3.14$

Units:

* Area is measured in "square" units. The area of a figure is the number of squares required to cover it completely, like tiles on a floor.

* Area of a square = side times side. Since each side of a square is the same, it can simply be the length of one side squared.

* If a square has one side of 4 inches, the area would be 4 inches times 4 inches, or 16 square inches. (Square inches can also be written in^2.)

* **Be sure to use the same units for all measurements.** You cannot multiply feet times inches, it doesn't make a square measurement.

* The area of a rectangle is the length on the side times the width. If the width is 4 inches and the length is 6 feet, what is the area?

ANSWER: 4 inches is the same as 1/3 feet (or .333 ft). Area is .333 feet times 6 feet = 2 square feet.