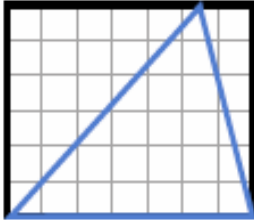
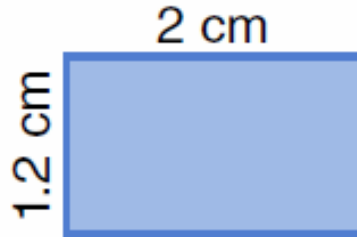


**Area** – the amount of surface inside a 2-dimensional figure, commonly measured in square units such as *square feet* or *square centimeters*

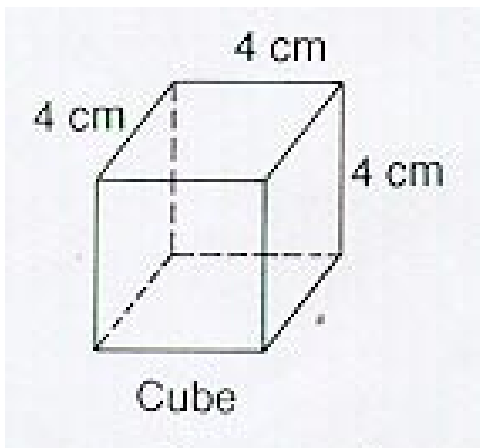


A triangle with area  
21 square units



A rectangle with area  
 $1.2 \text{ cm} * 2 \text{ cm} = 2.4 \text{ square centimeters}$

**Capacity/Volume of a container**– the amount of space occupied by a 3-dimensional figure; the amount a container can hold; measured in units like cups, gallons, or liters



**Centimeter (cm)** – a metric unit of length, equivalent to 10 millimeters,  $\frac{1}{10}$  of a decimeter, and  $\frac{1}{100}$  of a meter

$$\text{Centi} = \frac{1}{100}$$

A centimeter is approximately the width of your pointer finger.

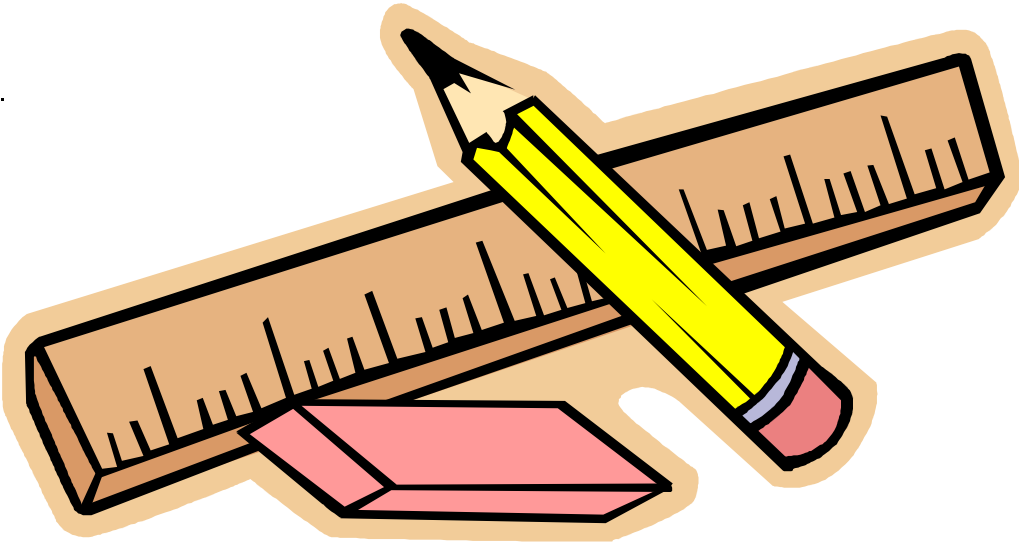


**Decimeter (dm)** – a metric unit of length equivalent to  $\frac{1}{10}$  of a meter or 10 centimeters

$$\text{Deci} = \frac{1}{10}$$

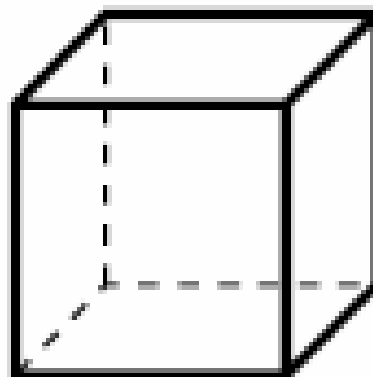


**Foot (ft)** – a U.S. customary unit of length equal to 12 inches or  $\frac{1}{3}$  of a yard



**Gram (g)** – a metric unit of measure for mass equal to  $\frac{1}{1,000}$  of a kilogram

**1 gram = 1 cubic  
centimeter**



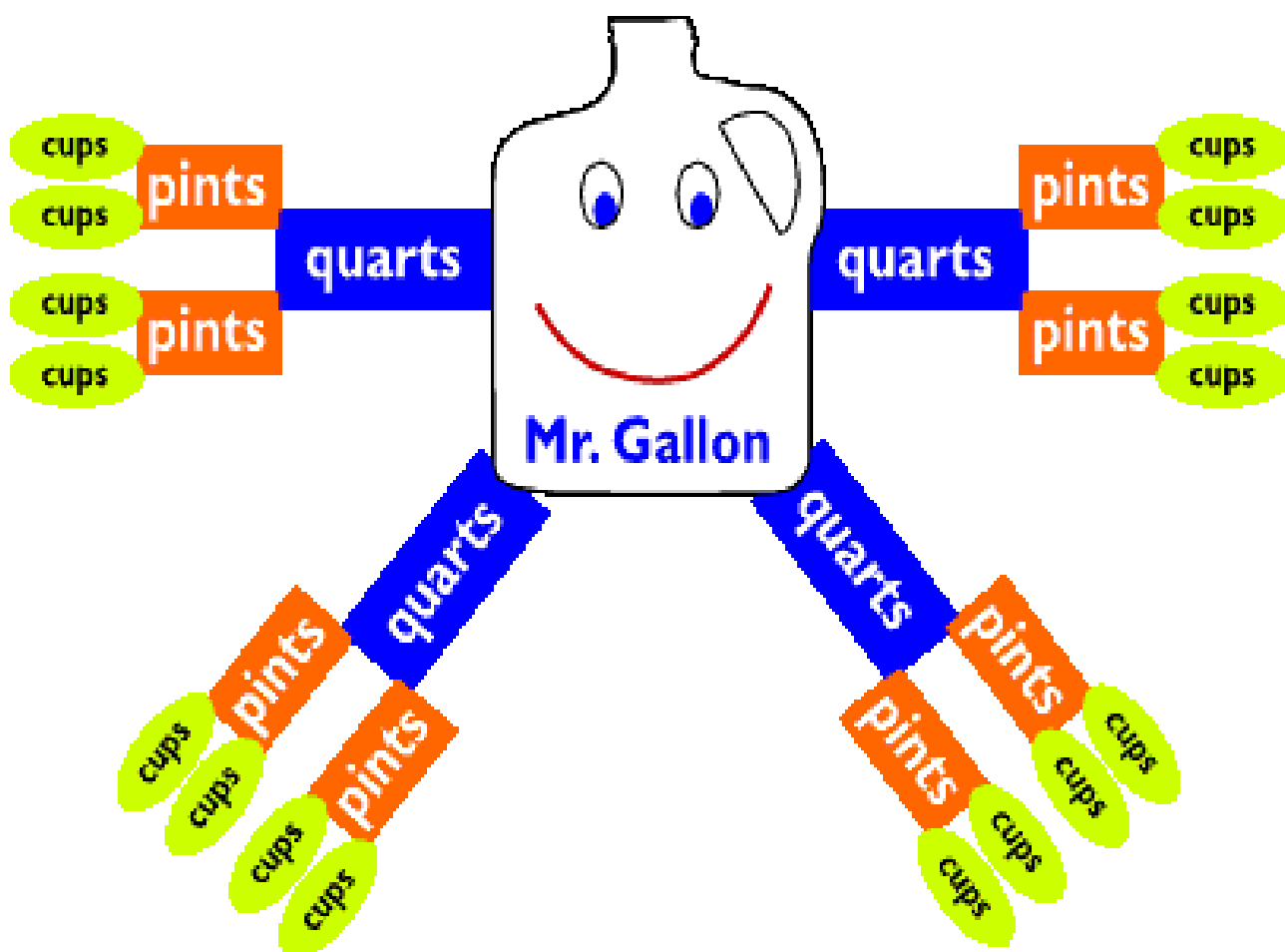
**Gallon** – a U.S. customary unit of measure for capacity or volume

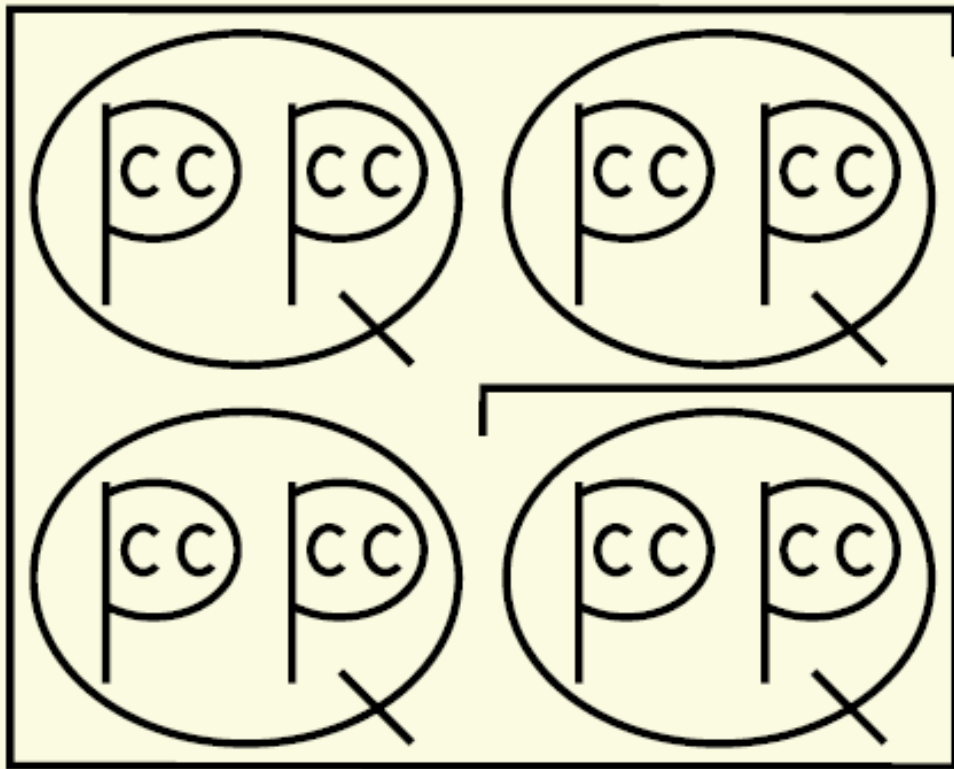
**Quart** - a U.S. customary unit of measure for capacity or volume; 4 quarts = 1 gallon

**Pint** - a U.S. customary unit of measure for capacity or volume; 2 pints = 1 quart

**Cup** - a U.S. customary unit of measure for capacity or volume; 2 cups = 1 pint

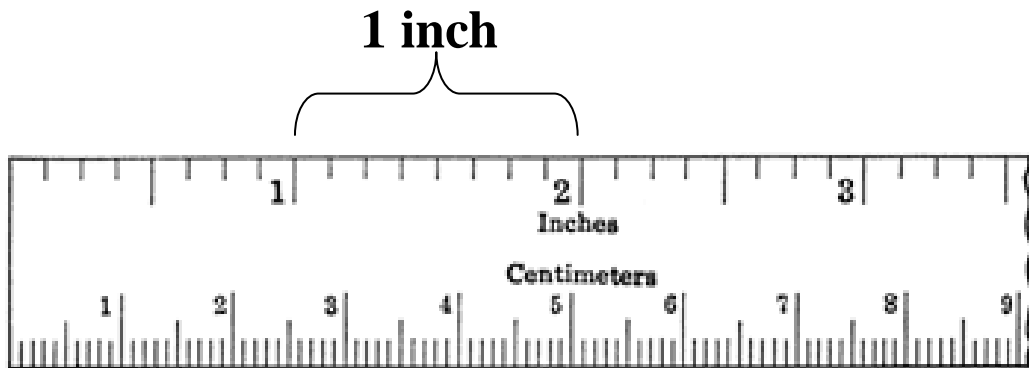
**Ounce** - a U.S. customary unit of measure for capacity or volume; 8 ounces = 1 cup



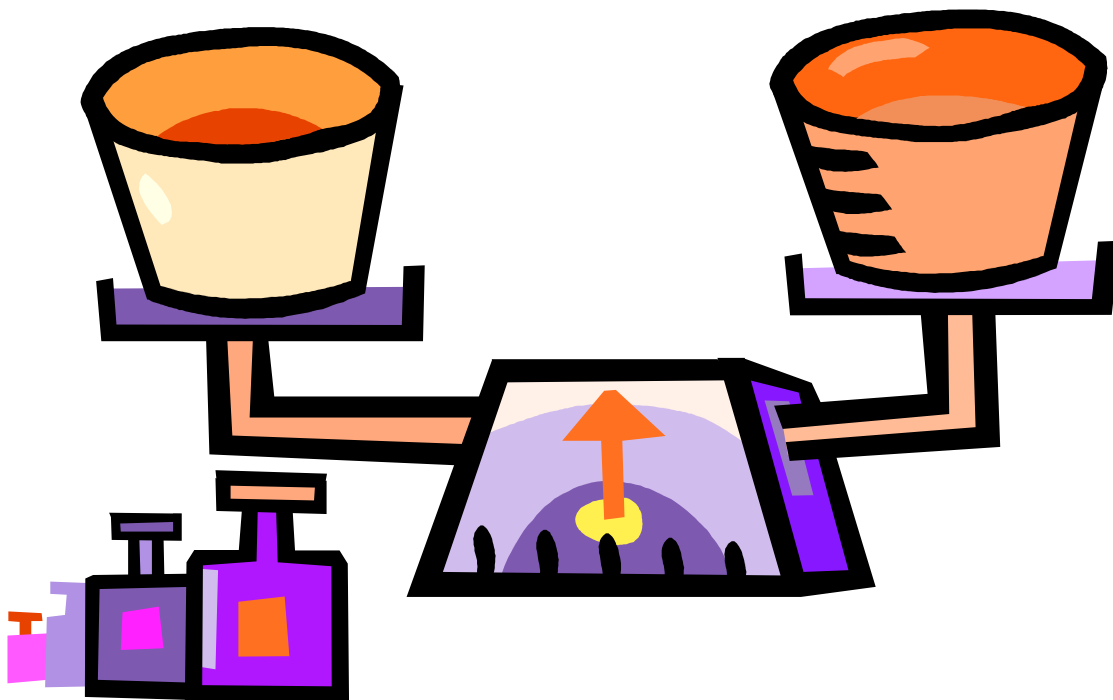


The G represents *gallon*. The Q represents *quart*.  
The P represents *pint*. The C represents *cup*.

**Inch (in)** – a U.S. customary unit of length equal to  $\frac{1}{12}$  of a foot



**Kilogram (kg)** – a metric unit of mass equal to 1,000 grams



**Kilometer – (km)** – a metric unit of length equal to 1,000 meters

**One Kilometer is equal to:**

**1,000 meters (m)**

**10,000 decimeters (dm)**

**100,000 centimeters (cm)**

**1,000,000 millimeters (mm)**

**Liter (L)** – a metric unit of measure for volume or capacity



**Meter (m)** – the basic metric unit of length from which other metric units of length are derived



**Mile (mi)** – a U.S. customary unit of length equal to 5,280 feet or 1,760 yards or 1,609 meters





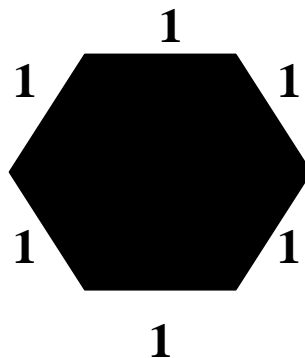
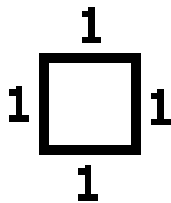
**Millimeter (mm)** –  $\frac{1}{1000}$  of a meter

$$\text{Milli} = \frac{1}{1000}$$

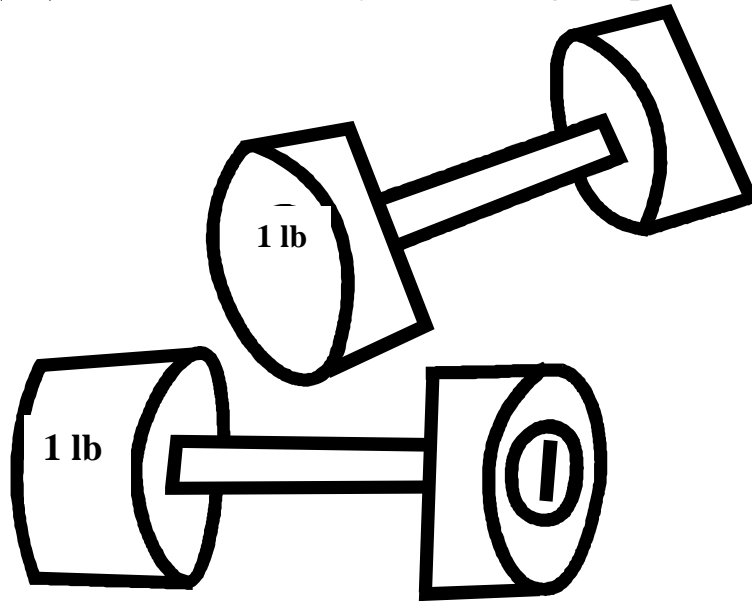
**1 millimeter**



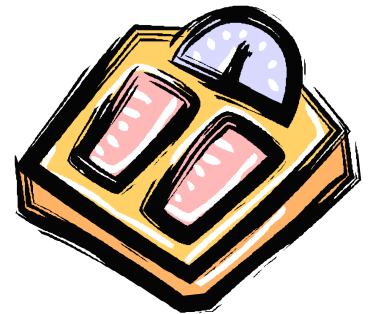
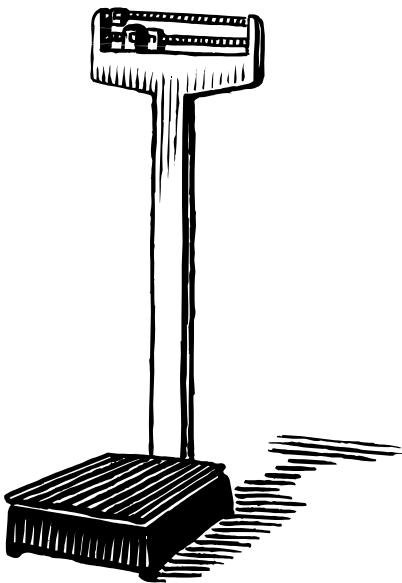
**Perimeter** – the distance around the boundary of a 2-dimensional figure.



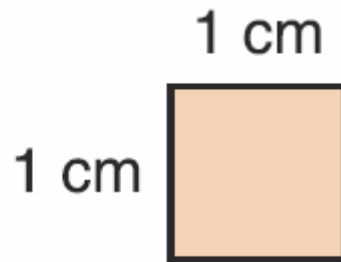
**Pound (lb)** – a U.S. customary unit of weight equal to 16 ounces



**Scale** – a tool used for measuring weight

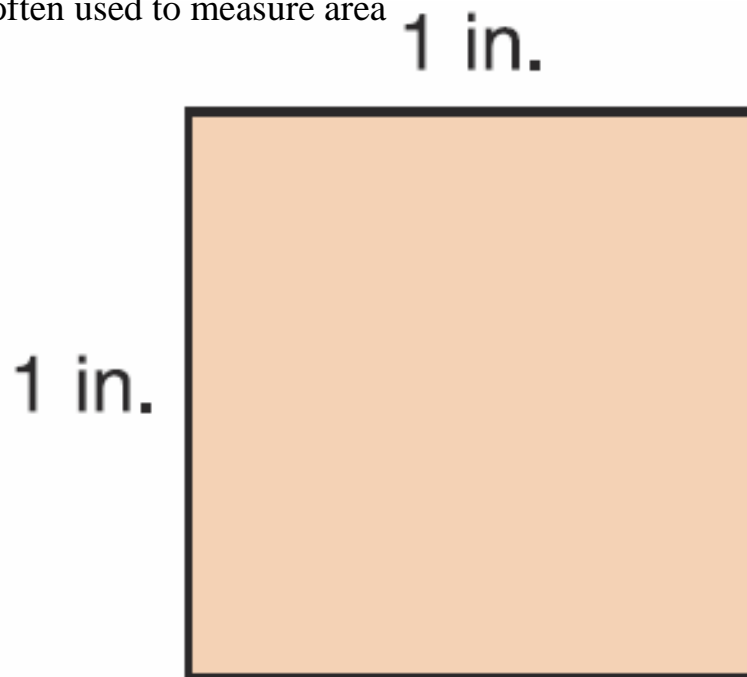


**Square Centimeters** – a square that measures exactly 1 centimeter in length by 1 centimeter in width; often used to measure area



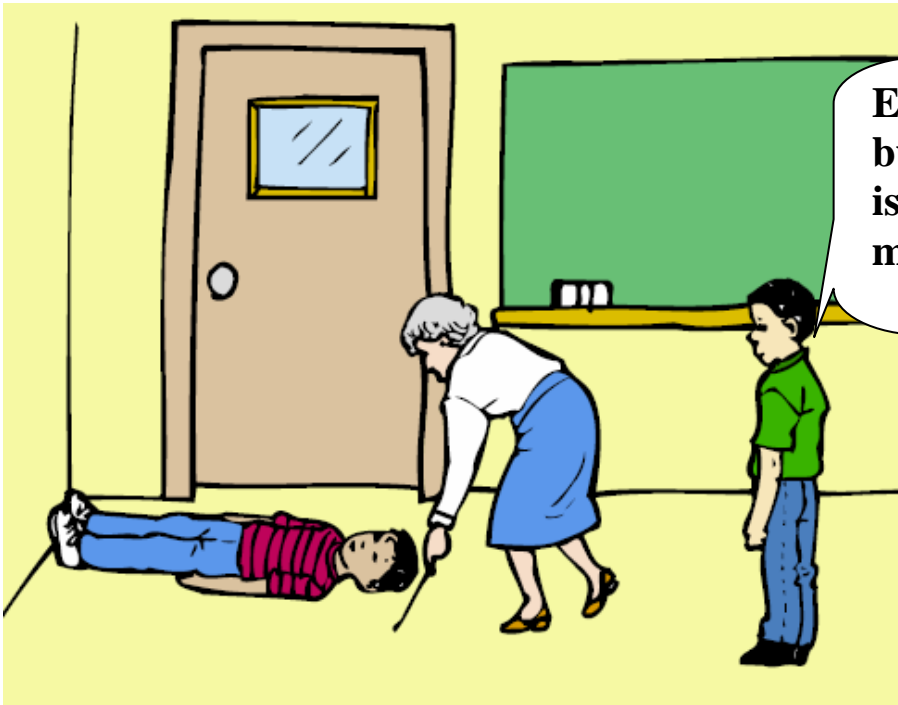
**1 square centimeter**

**Square Inch** – a square that measures exactly 1 inch in length by 1 inch in width; often used to measure area

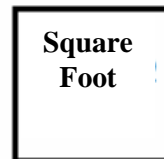
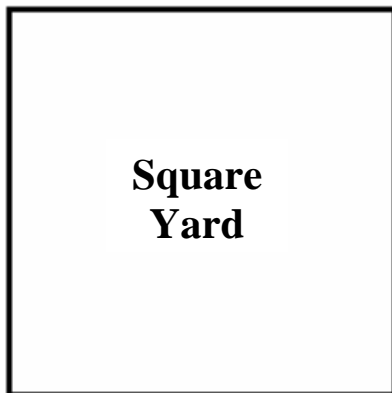


**1 square inch**

**Standard Unit** – a unit of measure that has been defined by a recognized authority such as a government or standards organization



**Square units** – a unit to measure area

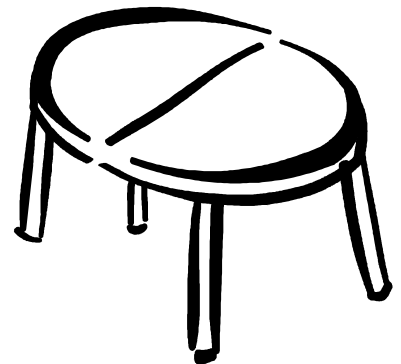
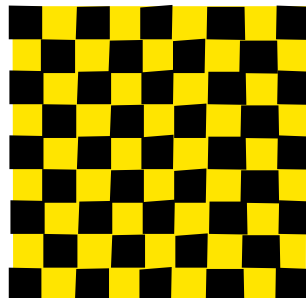


Square units

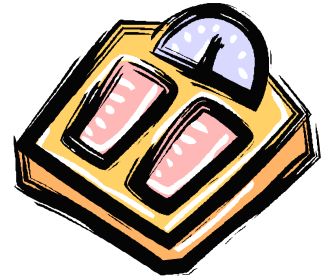
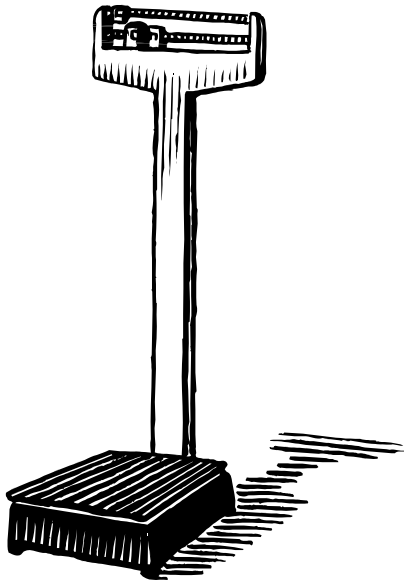
**Standard Unit** — when people agree to use the same unit of measure, it is called a standard unit



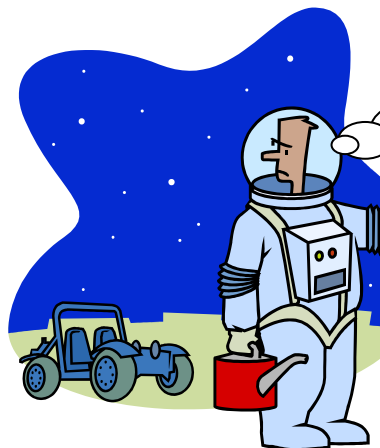
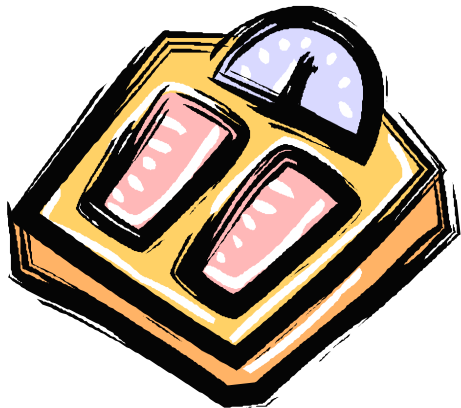
**Surface** — the top or outside of an object, like a tabletop, the floor, a checkerboard, the cover of a book, etc



**Weigh** – to determine the pull of gravity on an object; to determine the amount of mass in an object

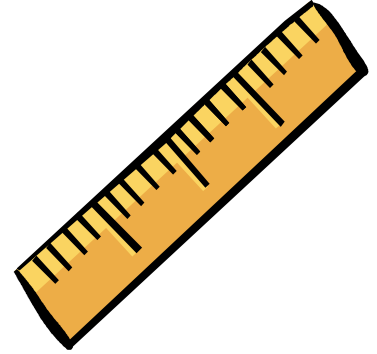
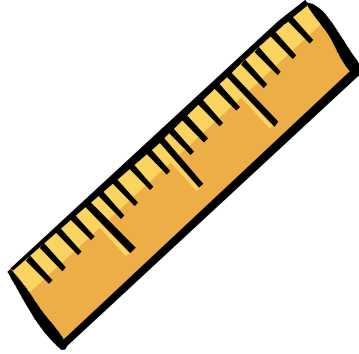
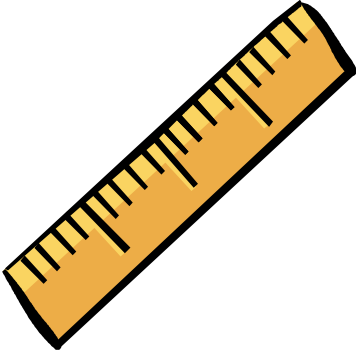


**Weight** – a measure of how heavy something is; the force of gravity on an object; an object's *mass* (how much space it takes up) is constant, but its varies according to the strength of gravity



Hmmmm . . . I  
seem to weigh  
less on the  
moon . . .

**Yard** – a U.S. customary unit of length equal to 3 feet or 36 inches



**3 feet = 1 yard**