1. How many miles will a person run during a 10.0 kilometer race?
2. The moon is 250,000 miles away. How many meters is it from earth?
3. How many seconds are there in 1.00 year?
4. A swimming pool is 75 feet long, 4.0 feet deep and 25 feet wide. How many gallons will it hold?
5. Change 60. miles/ hour to \_\_\_\_\_m/s.
6. Lake Michigan holds 1.3 x 1015 gallons of water. If just Chicago removed water from the lake and it never rained again, how many years would the water last? Chicago uses 1.2 x 109 gallons of water/day.
7. The circumference of the Earth at the equator is 24, 901.6 miles. What is the speed (relative to the stationary center) of an object on the surface of the earth at the equator, in meters per second? (Hint- it takes 24 hours for the Earth to complete one rotation)
8. Imagine that water is leaking from a container, at a rate of 1.2 ml/hour.  If this rate does not change, how many liters of water will be lost in a week?
9. Calculate the height of a 5 foot 10 inch man in m, mm, and cm.
10. At a given point in its orbit, the moon is 2.4 x 105 miles from earth. How long does it take light from a source on earth to reach a reflector on the moon and then return to earth? (speed of light is 3.0 x 108 m/s)