Problems:

1.) If my car is traveling at 35 miles per hour, how many feet per sec am I traveling at? (5280 ft = 1 mile)

2a.) David King can run 40 yards in 4.43 sec. How many miles per hour can Dave run? (3 ft = 1 yd)

2b.) How many centimeters per sec is Dave running? (2.54 cm = 1 inch)

3.) How many seconds are there in a century?

4.) The speed of light is 3.00×10^8 m/sec. Convert this to miles per hour.

5.) How much space in cubic millimeters (mm^3) would a 40.00 g bar of lead (d = 11.4 g/mL) take up ? (1 mL = 1 cm^3)
CAUTION! REMEMBER, WHEN YOU CUBE THE UNIT, YOU MUST CUBE THE NUMBER THAT GOES WITH IT!

6.) Determine the mass in kg of a 400 m^3 block of aluminum (d=2.7g/mL).

7.) My old beat up 1980 Datsun 210 gets around 27 miles per gallon on the highway. Convert this to kilometers per liter.
(1 in = .0254 m ; 1 gallon = 4 quart; 1 L = 1.057 quarts)