Page 96 (74, 77, 79, 80, 82. 87, 88)

- 74. Make the following conversions:
 - a. 157 cs to seconds
 - b. 42.7 L to milliliters
 - c. 261 nm to millimeters
 - d. 0.065 km to decimeters
 - e. 642 cg to kilograms
 - f. 8.25 X 10² cg to nanograms
- 77. Complete this table so that all the measurements in each row have the same value.

mg	g	cg	kg
a	b	28.3	C
6.6 x 10 ³	d	e	f
g	2.8 X 10 ⁻⁴	h	i

- 79. Rank these numbers from smallest to largest.
 - a. 5.3 X 10⁴
 - b. 57 X 10³
 - c. 4.9 X 10⁻²
 - d. 0.0057
 - e. 5.1 X 10⁻³
 - f. 0.0072×10^2
- 80. Comment on the accuracy and precision of these basketball free throw shooters.
 - a. 99 of 100 shots are made.
 - b. 99 of 100 shots hit the front of the rim and bounce off.
 - c. 33 of 100 shots are made; the rest miss.
- 82. Which would melt first, germanium with a melting point of 1210 K or gold with a melting point of 1064° C?
- 87. The density of dry air measured at 25° C is 1.19×10^{-3} g/cm³. What is the volume of 50.0 g of air?
- 88. What is the mass of a cube of aluminum that is 3.0 cm on each edge? The density of aluminum is 2.7 g/cm³.