Section 2.2 (pages 38-40)

Complete the following assignment in your class notebook with the heading: <u>Dimensional Analysis Practice</u>

Use the relationships below to solve the following problems using proper dimensional analysis as shown in class. Include correct units, significant figures, and Box final answers.

1 inch = 2.54 cm	1 mile = 5280 ft.	1 day = 24 hrs
1 yard = 3 ft.	1 min = 60 sec	1 yr = 365 days
1 mile = 1.61 km	1 hour = 60 min	1 atm = 760 mm Hg

- 1.) 47.0 inches = ? ft.
- 2.) 2.30 miles = ? km
- 3.) 4.75 hrs = ? min
- 4.) 87.0 min = ? days
- 5.) 7.32 atm = ? mm Hg
- 6.) 734 sec = ? years
- 7.) 95.0 mm = ? yards
- 8.) 24.5 miles/hour = __?_ km/min
- 9.) 62.0 sec/yard = ? hrs/ft.
- 10.) 70.0 mm/sec = ? miles/yr