

Names:

Chapter 3 – Extra Practice Problems

$$1 \text{ cm}^3 = 1 \text{ mL}$$

$$1 \text{ mile} = 1.61 \text{ km}$$

$$1 \text{ inch} = 2.54 \text{ cm}$$

$$1 \text{ lb} = 454 \text{ g}$$

$$1 \text{ gal} = 4 \text{ qt} = 3.7854 \text{ L}$$

$$16 \text{ dry oz} = 1 \text{ lb}$$

- Convert 7.8×10^3 mm into cm.
- How many 250 mg tablets can be made from 3.75 kg of powdered aspirin?
- Perform the following metric-English conversions:
 - 800.0 m to yards
 - 1250 cL to gallons
 - 1.52×10^3 ds to hrs
- A U.S. Patriot missile has a velocity of 1032 m/s. What is the velocity of the missile in miles per hour?
- Table salt melts at 801°C . What is the melting point on the Fahrenheit scale ($^\circ\text{F}$)?
- A rectangular block of copper has a mass of 143.584 g and measures 5.05 cm by 2.55cm by 1.25 cm. Find the density of the copper block.
- Convert 5.01 lb/ft^3 into g/mL

****Hard Problem**

- Nutritional tables give the potassium content of a standard apple (there are approximately 3 apples in 1 lb) as 159 mg. How many grams of potassium are in 3.75 kg of apples?