Conversions 3

Name: _____

Part1: Convert the following values to the desired units. Show work.

1) 1.6 km = _____ in

2) 46 mi = _____ mm

3) 840.1 ng = _____ lb

4) 956,000 cm^3 = _____ L

5) 304 cm^3 = _____ in^3

6) 130 cm^2 = _____ in^2

7) 0.963 L = _____ μL

8) 42 dL = _____ gal

9) 81 ks = _____ hours

10) 32 hL = _____ m^3

Part 2: In the following density situations, calculate the missing value:

1) mass = 23 g, volume = 75 mL

2) volume = 45.6 in^3, mass = 16.5 oz

3) density = 45 g/L, volume = 560 mL

4) mass = 15.7 g, density = 0.71 g/cm^3

5) 65 lb/ft^3, 860 lb

6) 19.6 kg/L, 397 mL

Part 3: Convert the following. Show work, and make sure you have the right units:

1) 34 g/cm^3 = _____ kg/L

2) 42 m/s = _____ mi/hr

3) 9.45 m^2 = _____ cm^2

4) 1,004,000 kg/m^3 = _____ lb/in^3

5) 0.0004 L = _____ mm^3

6) 9.0145 lb/in^2 = _____ g/cm^2

7) 300,000 km/s = _____ mi/hr

8) 0.45 g/ml = _____ kg/m^3

9) 56 yd^2 = _____ km^2

10) 0.0064 in/hr = _____nm/s