

CHEMISTRY

HOMEWORK 1c

Name: _____

1 in = 2.54 cm

1 ft = 12 in

1 mi = 5280 ft

1 lb = 454 g

A. Perform each conversion to the correct number of significant figures:

2.1×10^{-10} km to mm

3.5×10^8 μ g to kg

2.1 ft to cm

430. m to miles

86 lb to g

120 lb to kg

22° F to Celsius

130 mw to kilowatts

352 ml to L

B. Calculate the density of the element molybdenum if a 4.5 cm^3 sample has a mass of 45.627 g. Express your answer to the correct number of significant figures in the correct units. **Show Work.**