

Chapter 1 Review

Name: _____

Part 1: Convert the following values to the desired units. Show work.

1) $0.23 \text{ km} = \underline{\hspace{2cm}} \text{ mm}$

8) $71.2 \text{ lb} = \underline{\hspace{2cm}} \text{ hg}$

2) $4600 \text{ pg} = \underline{\hspace{2cm}} \mu\text{g}$

9) $190000 \text{ ms} = \underline{\hspace{2cm}} \text{ hours}$

3) $240 \text{ lb} = \underline{\hspace{2cm}} \text{ kg}$

10) $23.7 \text{ yd} = \underline{\hspace{2cm}} \text{ cm}$

4) $120,000 \text{ cm}^3 = \underline{\hspace{2cm}} \text{ hL}$

11) $19 \text{ mi/hr} = \underline{\hspace{2cm}} \text{ m/s}$

5) $19.0 \text{ gal} = \underline{\hspace{2cm}} \text{ L}$

12) $980 \text{ in}^2 = \underline{\hspace{2cm}} \text{ m}^2$

6) $50.0 \text{ dm} = \underline{\hspace{2cm}} \text{ in}$

13) $2300000 \text{ cm}^3 = \underline{\hspace{2cm}} \text{ mi}^3$

7) $0.0056 \text{ gal} = \underline{\hspace{2cm}} \mu\text{L}$

14) $192 \text{ kg/L} = \underline{\hspace{2cm}} \text{ g/mL}$

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

1) mass = 46 g, volume = 7.5 mL

3) density = 25 kg/L, volume = 30 mL

2) volume = 10.6 cm³, mass = 0.86 kg

4) mass = 23.8 g, density = 2.71 g/cm³

Part 3: For each number, tell how many sig figs and convert to the other notation

Regular notation	Sig Figs	Scientific Notation
90.10		4.9209×10^{-8}
7000000000		
		7.9100×10^{-5}
		1.157×10^0
23.540		
		1.9×10^8
560.		

Part 4: Express the answer to each problem in the proper number of significant figures. Then express the answer in scientific notation.

1) $468 + 1203.89 =$ _____ Scientific Notation: _____

2) $19.67 \times 232 =$ _____ Scientific Notation: _____

3) $6.9 / 1102 =$ _____ Scientific Notation: _____

4) $1123.54 - 151.9 =$ _____ Scientific Notation: _____

5) $122.09 \times 64 =$ _____ Scientific Notation: _____

Part 5: Graph the following data and determine the slope of the data:

Mass (g)	Volume (mL)
41.58	15.4
258.12	95.6
46.71	17.3
117.99	43.7
167.67	62.1
143.64	53.2
210.87	78.1

