

CHEMISTRY

REVIEW WORKSHEET 1q.

Name: _____

1. Write each of the following in ordinary decimal notation:

a) 7×10^5

b) 8.26×10^4

c) 3.802×10^{-10}

d) 203×10^{-5}

2. Write each of the following in standard scientific notation:

a) 3,073

c) 8097.01

b) .0000362

d) .000184

3. How many significant figures are there in each of the following?

a. 61782×10^{-10}

d. 53×10^8

b. 8.03×10^{-12}

e. 167.5818

c. 0.007350

f. 16.00

4. Round off each of the following as specified:

0.00079724 to 2 significant figures

85462 to 3 sig. figs.

5.97275535 to 4 sig. figs.

1 inch = 2.54 cm 1 mile = 5280 ft 1 lb = 454 g 1 ft = 12 in 100 cm = 1 m

5. Do the following unit conversions, using the conversion factors above:

a) 15.3 inches into cm

b) 4.25 lb into g

c) 1.33 feet into cm

d) 430 m into ft

e) 2.03 miles into km (convert to inches first)

6. If the density of zinc is 7.14 g/cm^3 , find:

a) the mass of $254. \text{ cm}^3$ of zinc

b) the volume of 84.2 g of zinc