CHEMISTRY REVIEW 1 FROM CHEM 120

1. Carry out the following calculations and report the answer with the correct number of significant figures (SF) and units. Remember to round, not truncate, to the correct number of SF.
2. (1.73 g/cm3)/(122.3 g) =
3. 1.285 x 10-2 m + 1.24 x 10-3 m + 0.1870 m =
4. 1.7 x 10-27 + 9 x 10-31 =
5. Perform the following conversions and give your answer in scientific notation.
6. 4.851 km = \_\_\_\_\_\_\_\_\_\_\_\_\_ m
7. 6.0 μg = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ g
8. 0.033 ns = \_\_\_\_\_\_\_\_\_\_\_\_\_\_ s
9. 13 dL = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ L
10. Convert the following measurements
11. 18 gallons \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ m3 (1 dm3 = 1 L)
12. 198 lb to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ kg
13. 2.2 billion miles/yr to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ m/ sec (1 mile =5280 ft)
14. 93.2 °F to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ K
15. Give the IUPAC name for the following compounds

* 1. Al2S3
  2. Fe(OH)2
  3. LiClO2
  4. TiBO3
  5. Sb2O5

1. Write the correct formula for each of the following compounds
   1. cesium hydride
   2. nickel(II) perbromate
   3. nitrogen monoxide
   4. copper(I) oxide
   5. calcium phosphate