Chemistry 11
Worksheet for Metric Usage

Convert the following Metric unit into the indicated unit.

1. 126 mg = __0.126__ g

2. 53.6 dag = __53600__ cg

3. 1235 Å = __0.0001235__ mm

4. 48 Å = __4.8__ nm

5. 338 mL = __0.338__ L

6. 0.035 cg = __0.35__ mg

7. 0.45 L = __450__ mL

8. 86.634 m = __0.036634__ km

9. 0.58 mg = __580__ μg

10. 268.48 nm = __0.00026848__ mm

In each of the following statements, there is AT LEAST one error in Metric System usage. RE-WRITE the entire statement, correcting each of the errors. Refer to the notes sheet on Metric System usage.

11. The recipe called for 1.0 ML of vanilla and 100 cc, of milk. Quick Note: "c.c." is an old term meaning "cubic centimetre".

        1.0 mL   100 mL

12. Trevor's temperature dropped by .9 c° (from 39.2 °celsius to 38.3 degrees Centigrade in 12 hr.)

       0.9 °C   °C   °C   12 h

13. The car accelerated from rest to 100 Km. per hour in 10 sec.

       km/h   10 s.

14. The weight of 1 Ml of water is exactly 1 gm.

    mass 1 mL   1 g

15. The package was marked as containing 500 gms of spaghetti.

       500 g

16. The height of the precipitate in the test tube was   c.m.

      2½   2.5 cm.

17. Cameron calculated that, if the molar weight of calcium carbonate was 100 g/mol, then the number of mol in 0.543 gms was .00543 mols.

  mass 0.543 g   0.00543 mol.   (no plural)