CONVERTING AND SCIENTIFIC NOTATION

Show work on notebook paper!

Convert:

1) 1000mg → g
2) 1L → mL
3) 160cm → mm
4) 1.4 km → m
5) 80 cm → m
6) 75 mL → L
7) 5.6 m → cm
8) 65 g → mg

Compare using < , > , or =

9) 7g ? 698mg
10) 1,500 mL ? 1.5 L
11) 536 cm ? 53.6 dm
12) 3.6 m ? 36cm

Write the abbreviation for each metric unit and tell if it measures mass, length, or volume

13) decigram
14) milliliter
15) meter
16) decameter

Write in scientific notation:

17) 12
18) 0.156000
19) 0.00000000853

Write in standard notation:

20) 1.98×10^{4}
21) 4.5×10^{-6}
22) 2.71×10^{-1}

What is wrong with the following #s?

23) 0.54×10^{5}
24) 97×10^{-4}

Why does this not make sense? Look at the number/exponent!

25) The diameter of a particular atom is 1.3×10^{8} cm.

Solve the following word problems:

26) In Australia, the people use approximately 2,240,000,000 pounds of bread in a year. Put in scientific notation

27) 0.000065 is the wave length of yellow light. Put in scientific notation.

28) A proton weighs 1.673×10^{-27} kg, a neutron weighs 1.75×10^{-27} kg, and an electron weighs 9.11×10^{-31} kg. Write the heaviest particle's mass in standard notation. Make sure you don't forget to look at the exponent in addition to the number itself!

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