Unit Conversions: Give All Answers to the Correct Number of Significant Figures.

1. Complete the following unit conversions. ***Show the conversion factors used.***

a. 466m → km b. 466km → m c. 1.489g → cg d. 1.489cg → g

e. 28.33s → μs f. 0.0056Gm → m g. 3.44x106ns → s h. 440hg → g

i. 99.99km → mm j. 2.88x1014μs → Gs k. 233cm → hm l. 78.0 kg → ng

m. 0.0034ns → ks n. 2.22x104kJ → cJ o. 9.400x108μN → dN p. 650hT → MT

2. Complete the following time conversions. ***Show the conversion factors used.***

a. 0.50h → min b. 45min → h c. 28.6h → min d. 129min → h

e. 2.00h → s f. 2.40h → s g. 2h22.1min → s h. 1.603min → s

i. 3h12min32.2s → s j. 3h30min → h k. 48min47.22s → h l. 0.9852h → s

3. Complete the following conversions. ***Show the conversion factors used.***

a. 45.00km/h → m/s b. 30.0km/h → m/s c. 0.0265km/h → m/s d. 1.08 x109 km/h → m/s

e. 10.0m/s → km/h f. 2.30 m/s → km/h g. 900cm2 → m2 h. 45kg min → g s

i. 0.055kg/cm → g/m j. 555kW h → W s k. 4.33x10-8 Mg s2/cg → Gg h2/kg

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