

28. Convert the following. Express answers in scientific notation.

a) 7.5×10^4 nm to kilometers

b) 3.9×10^5 mg to decigrams

c) 0.764 km to centimeters

d) 2.21×10^{-4} dL to microliters

31. What is the mass, in kilograms, of 14.0 L of gasoline? (Density of gasoline = 0.680 g/cm^3)

37. What must be true for a ratio of two measurements to be a conversion factor?

38.

42.