

A Quiz!

Show work (x by one) and answer all ?'s correctly

1. Convert 25.0 mg of Pb to cubic decimeters. The density of Pb is 11.3 g/cm³.

$$\text{Ans: } 25 \text{ mg} \times 1 \text{ g}/1000\text{mg} \times 1 \text{ cm}^3/11.3\text{g} \times 1 \text{ dm}^3/1000\text{cm}^3$$

2. Convert 50.0 $\mu\text{g}/\text{ml}$ to ng/kl

$$\text{Ans: } 50 \mu\text{g}/\text{ml} \times 1 \text{ g} / 1,000,000 \mu\text{g} \times 1,000,000,000 \text{ ng} / \text{g} \times 1000\text{ml}/\text{L} \times 1000 \text{ L} / \text{kL}$$

3. Convert 450 g/dm³ to mg/m³

$$\text{Ans: } 450 \text{ g}/\text{dm}^3 \times 1000 \text{ mg} / \text{g} \times 1000 \text{ dm}^3 / 1 \text{ m}^3$$