

Name _____

Science Lab Mix-Up Answer Key

1. $13.6 \times 1000 = \mathbf{13,600 \text{ kg/m}^3}$
2. $2.4 \times 1000 = \mathbf{2,400 \text{ kg/m}^3}$
3. $1.975 \text{ kg} = 1975 \text{ g}$; $1975 \div 250 = \mathbf{7.9 \text{ g/cm}^3}$
4. $0.92 \times 1000 = \mathbf{920 \text{ kg/m}^3}$
5. $2500 \times 4.184 = \mathbf{10,460 \text{ J}}$
6. $4.5 \text{ kJ} = 4500 \text{ J} \rightarrow 4500 \times 0.239 = \mathbf{1,075.5 \text{ cal}}$
7. $300 \text{ kcal} = 300,000 \text{ cal} \times 4.184 = \mathbf{1,255,200 \text{ J}}$
8. $900 \times 0.239 = \mathbf{215.1 \text{ cal}}$
9. $750 \div 1000 = \mathbf{0.75 \text{ kW}}$
10. $2.5 \text{ kW} \times 1000 \times (3 \times 3600) = \mathbf{27,000,000 \text{ J (27 MJ)}}$
11. $100 \text{ W} \times (10 \times 3600 \text{ s}) = 3,600,000 \text{ J} \rightarrow \div 1000 = \mathbf{3600 \text{ kJ}}$