

Chemistry – Unit 1 - Worksheet 6

Dimensional Analysis

Use the factor-label method to make the following conversions. Remember to use the appropriate number of sf's in your answer.

Part 1

1. $74 \text{ cm} \times \frac{1 \text{ m}}{100 \text{ cm}} = 0.74$ meters

2. $8.32 \times 10^{-2} \text{ kg} \times \frac{1000 \text{ g}}{1 \text{ kg}} = 83.2$ grams

3. $55.5 \text{ mL} \times \frac{1 \text{ cm}^3}{1 \text{ mL}} = 55.5$ cm^3

4. $0.00527 \text{ cal} \times \frac{1 \text{ kilocalorie}}{1000 \text{ cal}} = 5.27 \times 10^{-6}$ kilocalories

5. $9.52 \times 10^{-4} \text{ m} \times \frac{10^6 \mu\text{m}}{1 \text{ m}} = 952$ micrometers

6. $41.0 \text{ mL} \times \frac{1 \text{ L}}{1000 \text{ mL}} = 0.0410$ liters

7. $6.0 \times 10^{-1} \text{ g} \times \frac{1000 \text{ mg}}{1 \text{ g}} = 6.0 \times 10^2$ mg

8. $8.34 \times 10^{-9} \text{ cg} \times \frac{1 \text{ g}}{100 \text{ cg}} = 8.34 \times 10^{-11}$ g

9. $5.0 \times 10^3 \text{ mm} \times \frac{1 \text{ m}}{1000 \text{ mm}} = 5.0$ m

10. $1 \text{ day} \times \frac{24 \text{ hr}}{1 \text{ day}} \times \frac{60 \text{ min}}{1 \text{ hr}} \times \frac{60 \text{ s}}{1 \text{ min}} = 86400$ seconds

11. $5 \times 10^4 \text{ mm} \times \frac{1 \text{ m}}{1000 \text{ mm}} \times \frac{1 \text{ km}}{1000 \text{ m}} = 0.05$ km

12. $9.1 \times 10^{-13} \text{ kg} \times \frac{1000 \text{ g}}{1 \text{ kg}} \times \frac{10^9 \text{ ng}}{1 \text{ g}} = 0.91$ ng

Chemistry Unit Worksheet 5 Size Of Things

Oscar Krisen Buros

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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