

Unit 1 • Observations, Models, & Experiments

SCIENTIFIC NOTATION

Change the following to Scientific Notation (maintain the number of significant figures):

1. $5.280 = \underline{5.280}$

11. $2,560 = \underline{2.56 \times 10^3}$

2. $2,000 = \underline{2 \times 10^3}$

12. $.0009 = \underline{9 \times 10^{-4}}$

3. $15 = \underline{1.5 \times 10^1}$

13. $8,900,000 = \underline{8.9 \times 10^6}$

4. $6,589,000 = \underline{6.589 \times 10^6}$

14. $.0920 = \underline{9.20 \times 10^{-2}}$

5. $70,400,000,000 = \underline{7.04 \times 10^{10}}$

15. $6,300 = \underline{6.3 \times 10^3}$

6. $.00263 = \underline{2.63 \times 10^{-3}}$

16. $.90 = \underline{9.0 \times 10^{-1}}$

7. $.00589 = \underline{5.89 \times 10^{-3}}$

17. $250 = \underline{2.5 \times 10^2}$

8. $.006 = \underline{6 \times 10^{-3}}$

18. $.006087 = \underline{6.087 \times 10^{-3}}$

9. $.400 = \underline{4.00 \times 10^{-1}}$

19. $500,000 = \underline{5 \times 10^5}$

10. $.08060 = \underline{8.060 \times 10^{-2}}$

20. $.0000000105 = \underline{1.05 \times 10^{-8}}$

Make the following Metric System conversions using "unit analysis" (you may use scientific notation):

1. $100 \text{ mg} \times \frac{1 \text{ g}}{1000 \text{ mg}} = \underline{.1} \text{ g}$

2. $20 \text{ cm} \times \frac{1 \text{ m}}{100 \text{ cm}} = \underline{.2} \text{ m}$

3. $50 \text{ L} \times \frac{1 \text{ kL}}{1000 \text{ L}} = \underline{.05} \text{ kL}$

4. $22 \text{ g} \times \frac{100 \text{ cg}}{1 \text{ g}} = \underline{2200} \text{ cg}$

5. $825 \text{ cm} \times \frac{1 \text{ m}}{100 \text{ cm}} \times \frac{1 \text{ km}}{1000 \text{ m}} = \underline{8.25 \times 10^{-3}} \text{ km}$

6. $2,350 \text{ kg} \times \frac{1000 \text{ g}}{1 \text{ kg}} = \underline{2.35 \times 10^6} \text{ g}$

7. $19 \text{ mL} \times \frac{1 \text{ L}}{1000 \text{ mL}} \times \frac{100 \text{ cL}}{1 \text{ L}} = \underline{1.9} \text{ cL}$

8. $52 \text{ km} \times \frac{1000 \text{ m}}{1 \text{ km}} = \underline{52000} \text{ m}$

9. $36 \text{ m} \times \frac{100 \text{ cm}}{1 \text{ m}} = \underline{3600} \text{ cm}$

10. $18 \text{ cm} \times \frac{1 \text{ m}}{100 \text{ cm}} \times \frac{1000 \text{ mm}}{1 \text{ m}} = \underline{180} \text{ mm}$

11. $6 \text{ g} \times \frac{1000 \text{ mg}}{1 \text{ g}} = \underline{6000} \text{ mg}$

12. $4,259 \text{ mg} \times \frac{1 \text{ g}}{1000 \text{ mg}} = \underline{4.259} \text{ g}$

Estimating Length Using Scientific Notation Answer Key

S Baum



Estimating Length Using Scientific Notation Answer Key:

Estimating Length Using Scientific Notation Answer Key Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Estimating Length Using Scientific Notation Answer Key**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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