

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

Xiang Xie



Estimating Length Using Scientific Notation Answer Key:

Unveiling the Magic of Words: A Review of "**Estimating Length Using Scientific Notation Answer Key**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Estimating Length Using Scientific Notation Answer Key**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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