

Chapter 1 Science Skills

Using Scientific Notation

Light travels through space at a speed of 3.00×10^8 meters per second. How long does it take for light to travel from the sun to Earth, which is a distance of 1.50×10^{11} meters?

1. Read and Understand

What information are you given?

$$\text{Speed} = 3.00 \times 10^8 \text{ m/s}$$

$$\text{Total distance} = 1.50 \times 10^{11} \text{ m}$$

2. Plan and Solve

What unknown are you trying to calculate?

$$\text{Time} = ?$$

What formula contains the given quantities and the unknown?

$$\text{Time} = \frac{\text{Total distance}}{\text{Average speed}}$$

Replace each variable with its known variable and known value.

$$\begin{aligned} \text{Time} &= \frac{1.50 \times 10^{11} \text{ m}}{3.00 \times 10^8 \text{ m/s}} \\ &= \frac{1.50}{3.00} \times (10^{11-8})(\text{m}/(\text{m}/\text{s})) \\ &= 0.50 \times 10^3 \text{ s} = 5.00 \times 10^2 \text{ s} \end{aligned}$$

3. Look back and check

Is your answer reasonable?

Yes, the number calculated is the quotient of distance and speed, and the units (s) indicate time.

Math Practice

On a separate sheet of paper, solve the following problems.

1. The flow of water in a stream is 210,000 liters per hour. Use scientific notation to calculate the amount of water that flows in a week (168 hours).
2. The density of a liquid is 8.03×10^{-1} kilogram per liter. What is the mass (in kg) of liquid in a full 100,000 liter tank?
3. How many balloons, each containing 6.02×10^{23} particles of helium gas, can be filled from a tank that contains 1.204×10^{25} helium particles?

Math Skill:
Scientific Notation

You may want to read more about this **Math Skill** in the **Skills and Reference Handbook** at the end of your textbook.

Physical Science Study Workbook Answers Wordwise

Léo Pomar



Physical Science Study Workbook Answers Wordwise:

Physical Science Study Workbook Answers Wordwise Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Physical Science Study Workbook Answers Wordwise**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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