

## Chapter 1 Science Skills

**Using Scientific Notation**

Light travels through space at a speed of  $3.00 \times 10^8$  meters per second. How long does it take for light to travel from the sun to Earth, which is a distance of  $1.50 \times 10^{11}$  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  $8.03 \times 10^{-1}$  kilogram per liter. What is the mass (in kg) of liquid in a full 100,000 liter tank?
3. How many balloons, each containing  $6.02 \times 10^{23}$  particles of helium gas, can be filled from a tank that contains  $1.204 \times 10^{25}$  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 Workbook Answers Chapter 11 3

**WJ Hussar**



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