

# Problem Solving with Scientific Notation

key

# 4

Directions: Solve each problem.

- 1) A rectangular section of a gated back yard for Mrs. Gabel's new puppy has dimensions of  $2 \times 10^3$  meters by  $6 \times 10^4$  meters. Find the area of the land in square meters written in scientific notation.

$$A = L \cdot W \quad (2 \times 10^3)(6 \times 10^4)$$

①  $2 \times 6 = 12$

②  $3 + 4 = 7$

③  $12 \times 10^7 (+1)$   
④  $1.2 \times 10^8$

- 2) One cubic millimeter of Dracula's blood contains about 7,000,000 red blood cells. There are about 3,800,000 cubic millimeters of blood in his entire body. How many blood cells does Dracula have in total written in scientific notation?

$7 \times 10^6$

$3.8 \times 10^6$

$$(7 \times 10^6)(3.8 \times 10^6)$$

①  $7 \times 3.8 = 26.6$

③  $26.6 \times 10^{12} (+1)$

②  $6 + 6 = 12$

④  $2.66 \times 10^{13}$

- 3) New York has approximately  $5 \times 10^6$  people living in it. The population of the entire United States is approximately  $2.5 \times 10^8$  people. About how many times greater is the population of the United States than the population of New York?

$\frac{US}{NY}$

$\frac{2.5 \times 10^8}{5 \times 10^6}$

①  $\frac{2.5}{5} = .5$

②  $8 - 6 = 2$

③  $.5 \times 10^{2(+1)}$  ④  $5 \times 10^3$

- 4) A box contains  $4 \times 10^3$  Styrofoam peanuts. The mass of each peanut in the box is  $5 \times 10^{-4}$  kilogram. What is the combined mass of the Styrofoam peanuts in the box written in scientific notation?

$$(4 \times 10^3)(5 \times 10^{-4})$$

①  $4 \times 5 = 20$

②  $3 + -4 = -1$

③  $20 \times 10^{-1} (+1)$

④  $2.0 \times 10$

- 5) Santa Claus's belly is approximately  $2 \times 10^3$  millimeters in diameter. Earth is approximately  $3 \times 10^{12}$  millimeters in diameter (not really). How much larger is the Earth's diameter than Santa's Belly?

$\frac{\text{Earth}}{\text{Santa's belly}}$

$\frac{3 \times 10^{12}}{2 \times 10^3}$

①  $\frac{3}{2} = 1.5$

②  $12 - 3 = 9$

③  $1.5 \times 10^9$

$\frac{3}{2} = 1.5$

# Hw 7 5 Scientific Notation Word Problems Answer Key

**M Mark**



## **Hw 7 5 Scientific Notation Word Problems Answer Key:**

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### **Table of Contents Hw 7 5 Scientific Notation Word Problems Answer Key**

1. Understanding the eBook Hw 7 5 Scientific Notation Word Problems Answer Key
  - The Rise of Digital Reading Hw 7 5 Scientific Notation Word Problems Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Hw 7 5 Scientific Notation Word Problems Answer Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Hw 7 5 Scientific Notation Word Problems Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Hw 7 5 Scientific Notation Word Problems Answer Key

- Personalized Recommendations
  - Hw 7 5 Scientific Notation Word Problems Answer Key User Reviews and Ratings
  - Hw 7 5 Scientific Notation Word Problems Answer Key and Bestseller Lists
5. Accessing Hw 7 5 Scientific Notation Word Problems Answer Key Free and Paid eBooks
    - Hw 7 5 Scientific Notation Word Problems Answer Key Public Domain eBooks
    - Hw 7 5 Scientific Notation Word Problems Answer Key eBook Subscription Services
    - Hw 7 5 Scientific Notation Word Problems Answer Key Budget-Friendly Options
  6. Navigating Hw 7 5 Scientific Notation Word Problems Answer Key eBook Formats
    - ePub, PDF, MOBI, and More
    - Hw 7 5 Scientific Notation Word Problems Answer Key Compatibility with Devices
    - Hw 7 5 Scientific Notation Word Problems Answer Key Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Hw 7 5 Scientific Notation Word Problems Answer Key
    - Highlighting and Note-Taking Hw 7 5 Scientific Notation Word Problems Answer Key
    - Interactive Elements Hw 7 5 Scientific Notation Word Problems Answer Key
  8. Staying Engaged with Hw 7 5 Scientific Notation Word Problems Answer Key
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Hw 7 5 Scientific Notation Word Problems Answer Key
  9. Balancing eBooks and Physical Books Hw 7 5 Scientific Notation Word Problems Answer Key
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Hw 7 5 Scientific Notation Word Problems Answer Key
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Hw 7 5 Scientific Notation Word Problems Answer Key
    - Setting Reading Goals Hw 7 5 Scientific Notation Word Problems Answer Key
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Hw 7 5 Scientific Notation Word Problems Answer Key

- Fact-Checking eBook Content of Hw 7 5 Scientific Notation Word Problems Answer Key
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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