

# 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  $1.5 \times 10^9$

$\frac{1.5 \times 10^9}{1.5 \times 10^9}$

# Hw 7 5 Scientific Notation Word Problems Answer Key

**Liying Dong**



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