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## Scientific Notation Word Problems - Matching Worksheet

Write the letter of the answer that matches the problem.

1. The speed of an airplane is $2,000 \mathrm{mph}$ for 7 hours. How far did the airplane travel?
a. $8.372 \times 10^{-3}$
(Remember: distance $=$ speed $x$ time $(d=s t)$
2. How far does light travel in water in $5.0 \times$ $10^{2}$ seconds, if the speed of light in water is $3 \times$
b. $\quad 1.25 \times 10^{7}$ $10^{8} \mathrm{~m} / \mathrm{s}$ ?
3. The Sun is $2.093 \times 10^{8} \mathrm{~km}$ (kilometers) from Mars and the speed of light is $2.5 \times 10^{8} \mathrm{~m} / \mathrm{s}$. Calculate the time it takes light, from the Sun, to reach Mars.
4. Suppose there are $5 \times 10^{6}$ bacteria in every 2 liters of water. How many bacteria are there
c. $\quad 4.393 \times 10^{6}$ in 5 liters of water?
d. $\quad 1.4 \times 10^{4}$
5. Ron has to calculate the time taken by a sound wave to travel from Earth to Venus at the e. $1.5 \times 10^{11}$ speed of $4.78 \times 10^{12}$ miles per year (called a light-year). The distance between Earth and Venus is $2.1 \times 10^{19}$ miles.
