Name _____     Date _____

## 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 mph for 7 hours. How far did the airplane travel?

(Remember: distance = speed x time (d = st)

a.   $8.372 \times 10^{-3}$

_____  2. How far does light travel in water in $5.0 \times 10^2$ seconds, if the speed of light in water is $3 \times 10^8$ m/s?

b.   $1.25 \times 10^7$

_____  3. The Sun is $2.093 \times 10^8$ km (kilometers) from Mars and the speed of light is $2.5 \times 10^8$ m/s. Calculate the time it takes light, from the Sun, to reach Mars.

c.   $4.393 \times 10^6$

_____  4. Suppose there are $5 \times 10^6$ bacteria in every 2 liters of water. How many bacteria are there in 5 liters of water?

d.   $1.4 \times 10^4$

_____  5. Ron has to calculate the time taken by a sound wave to travel from Earth to Venus at the 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.

e.   $1.5 \times 10^{11}$