

Name \_\_\_\_\_

# Scientific Notation

Solve the word problem involving scientific notation.

1) A small bacteria population is growing at a rate of  $3.4 \times 10^6$  bacteria per day. If this rate continues for 5 days, how many bacteria will there be in total?

2) A book  $2.1 \times 10^2$  weighs grams. If a library has 150 of these books, what is the total weight of all the books?

3) A spacecraft travels at a speed of  $7.2 \times 10^4$  kilometers per hour. How far will it travel in 3 hours?

4) A scientist measures a very small particle to have a mass of  $5.6 \times 10^{-8}$  kilograms. If there are 1000 such particles, what is their total mass?

5) A microchip contains  $8.9 \times 10^9$  transistors. If a technician inspects 4 chips, how many transistors are there in total?