

Name _____

Scientific Notation

Solve the word problem involving scientific notation.

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

1.7×10^7 bacteria.

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

3.15×10^4 grams.

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

2.16×10^5 kilometers.

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

5.6×10^{-5} kilograms.

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

3.56×10^{10} transistors.