

Write the number(s) given in each problem using scientific notation. Don't forget the unit.

1. The human eye blinks an average of 4,200,000 times a year. _____
2. A computer processes a certain command in 15 nanoseconds. (A nanosecond is one billionth of a second.) In decimal form, this number is 0.000 000 015 _____
3. There are 60,000 miles (97,000 km) in blood vessels in the human body. _____ miles _____ km
4. The highest temperature produced in a laboratory was 920,000,000 F (511,000,000 C) at the Tokomak Fusion Test Reactor in Princeton, NJ, USA. _____ °F _____ °C
5. The mass of a proton is 0.000 000 000 000 000 000 000 001 673 grams. _____
6. The mass of the sun is approximately 1,989,000,000,000,000,000,000,000,000,000 grams. _____
7. The cosmos contains approximately 50,000,000,000 galaxies. _____
8. A plant cell is approximately 0.00001276 meters wide. _____

Write the number(s) given scientific notation in standard form. Don't forget the unit.

9. The age of earth is approximately 4.5×10^9 years.

10. The weight of one atomic mass unit (a.m.u.) is 1.66×10^{-27} kg.
