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 0.000 000 000 000 000 000 000 000 001 673 grams. _______________________________

6. The mass of the sun is approximately 1,989,000,000,000,000,000,000,000,000,000,000 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 \times 10^9 years.

__________________________________________________________

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

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