

Name \_\_\_\_\_ Date \_\_\_\_\_

**Write the number(s) given in each problem using scientific notation.**

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.  
\_\_\_\_\_ mi \_\_\_\_\_ km

4. The highest temperature produced in a laboratory was 920,000,000 F (511,000,000 C) at the Tokamak Fusion Test Reactor in Princeton, NJ, USA.  
\_\_\_\_\_ F \_\_\_\_\_ C

5. The mass of a proton is 0.000 000 000 000 000 000 001 673 grams.  
\_\_\_\_\_ g

6. The mass of the sun is approximately 1,989,000,000,000,000,000,000,000,000 grams.  
\_\_\_\_\_ g

7. The cosmos contains approximately 50,000,000,000 galaxies. \_\_\_\_\_

8. A plant cell is approximately 0.00001276 meters wide. \_\_\_\_\_ m

**Write the number(s) given scientific notation in standard form.**

9. The age of earth is approximately  $4.5 \times 10^9$  years. \_\_\_\_\_ yr

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