**Scientific Notation Worksheet**- Show **all** work  **NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Write the following numbers in scientific notation. Write your answers to the tenth decimal place.

1. 1001
2. 53
3. 6,936,300,000
4. 392
5. 0.00361

Write the following numbers in regular notation.

1. 1.92 x 103
2. 3.05 x 101
3. 4.29 x 102
4. 1.02 x 10-2
5. 512 x 10-8

Use your calculator to find the answer to the following problems. Write all your answers in scientific notation.

1. 4.1257 x 10-15 + 5.4 x 102
2. 1.695 x 104 / 1.395 x 1015
3. 4.367 x 103 x 1.96 x 1011
4. 6.97 x 103 x 2.34 x 10-6
5. 5.16 x 10-4 – 8.65 x 10-8
6. 2.38 x 10-1 x 1.15 x 10-6

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 0.000000015.
3. The highest temperature produced in a laboratory was 920,000,000°F at the Tokamak Fusion Test Reactor in Princeton, NJ.
4. The mass of a proton is 0.000000000000000000000001673 grams.
5. The mass of the sun is 989,000,000,000,000,000,000,000,000,000,000

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

1. The age of the earth is approximately 4.5 x 109 years.
2. The weight of one atomic mass unit (amu) is 1.66 x 10-27 kg.