**Homework #2 Chemistry 1114 (Fong) due Wed 31 Jan 2018 10 pts**

**(in class)**

**Your name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_ANSWERS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1) convert 0.00035 to scientific notation \_\_\_\_\_3.5\*10‑4\_\_\_\_\_\_\_\_\_\_

2) Best prefixed expression for 5\*10-7 s\_\_\_\_\_\_\_500 ns\_\_\_\_\_\_(0.5 μs ok)\_\_\_\_\_\_

3) Best prefixed expression fo 8.1\*108 g \_\_\_\_\_\_810 Mg\_\_\_\_\_\_(\_0.81 Gg ok)\_\_\_\_\_

4) 3 Mm = \_\_\_\_\_\_3\*108 \_\_\_\_\_\_\_\_\_\_\_\_\_\_ cm

5) 5 ps = \_\_\_\_\_\_\_\_5\*10-3\_\_\_\_\_\_\_\_\_\_\_\_\_ ns

4) 250 cg = \_\_\_\_\_\_250\*10-5=2.5\*10-3\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ kg

Sig fig count for numbers below:

|  |  |  |  |
| --- | --- | --- | --- |
| 0.0010 | 50000 | 2.0002000 | 6.626\*10-34 |
| 2 | 1 | 8 | 4 |