

Quiz #8

Name: _____

Block: _____

1. Using your calculator, perform the operation indicated and then write answer to the .1 decimal place using *scientific notation*.

$$\frac{(4.5 \times 10^{-13}) (5.8 \times 10^{23})}{(3.1 \times 10^{41})} = \underline{\hspace{10em}}$$

2. Write this number written in *scientific notation*: 000.000000000379

3. What is the *meaning* of the EE button or EXP button? _____

4. Is the number 5×10^{-4} *greater* or *less* than 1.0? _____

5. Calculate the atomic mass of element X. Then, use the periodic table to identify the element. Show all your work!

Isotope	Mass (amu)	% abundance
X-24	23.985041	78.99%
X-25	24.985837	10.00%
X-26	25.982593	11.01%

What is the name of the element? _____

5. Calculate the atomic mass of element Z. Then, use the periodic table to identify the element. Show all your work!

Isotope	Mass (amu)	% abundance
Z-35	34.968852	75.78%
Z-37	36.965902	24.22%

What is the name of the element? _____