Name Date

Homework -1a

**Scientific Notation - Matching Worksheet**

Write the letter of the answer that matches the problem.

|  |  |  |  |
| --- | --- | --- | --- |
|  | 1. Which is the larger value: 5 x 102 or 3 x 103? | a. | 5,210,000 |
|  | 2. Express 5.21 x 106 in standard form. | b. | 1360 |
|  | 3. Write 0.0000745 in scientific notation. | c. | 2 x 107 |
|  | 4. Express 1.36 x 103 in standard form. | d. | 6.48 x 10-5 |
|  | 5. Write 0.000000874 in scientific notation. | e. | 3.47 x 10-6 |
|  | 6. Which is the larger value: 2 x 107 or 7 x 103? | f. | 3 x 103 |
|  | 7. Which is the larger value: | g. | 7.45 x 10-5 |

6 x 103 or 5 x 104?

8. Write 0.0000648 in scientific notation. h. 8.74 x 10-7

9. Express 8.96 x 106 in standard form. i. 5 x 104

j. 8,960,000

10. Write 0.00000347 in scientific notation.

Home work -1b

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Chemical Formula | Total number of elements | Name the element(s)  present | Symbol of each element present | Total number of atoms |
| CuCO3 | 3 | Copper, Carbon, and Oxygen | Cu, C and O | Cu – 1  C – 1  O – 3  1+1+3=5 |
| H2SO4 |  |  |  |  |
| NH3 |  |  |  |  |
| O2 |  |  |  |  |
| NaHCO3 |  |  |  |  |
| H2O2 |  |  |  |  |
| NaOH |  |  |  |  |
| Ca(CN)2 |  |  |  |  |
| MgBr2 |  |  |  |  |
| Au2S |  |  |  |  |
| Al2O3 |  |  |  |  |
| (NH4)2SO4 |  |  |  |  |
| AgI |  |  |  |  |
| Ti |  |  |  |  |
| H2S |  |  |  |  |