

- 1. Here are some examples of numbers written in standard notation:
- 2. Here are some examples of numbers written in scientific notation:
- 3. Find the product for each of the following. Look for a pattern, so you can answer question #4.

$$6.1 \times 10^{0} =$$
_____, $6.1 \times 10^{1} =$ _____, $6.1 \times 10^{2} =$ _____, $6.1 \times 10^{3} =$ _____.

$$6.1 \times 10^3 =$$
____.

$$6.1 \times 10^4 =$$

$$6.1 \times 10^6 =$$

$$6.1 \times 10^4 =$$
_____, $6.1 \times 10^5 =$ _____, $6.1 \times 10^6 =$ _____, $6.1 \times 10^7 =$ _____.

- 4. Explain what happens to the decimal point when you multiply by a power of ten.
- 5. When changing a number in standard form to scientific notation, move the decimal to the right of the _____ digit. Then, count the number of places you moved the decimal. The number of places you moved the decimal is the of 10 you have multiplied by in order to move that decimal.

$$52,000,000. \rightarrow 5$$
, $200000 = 5.2 \times 10^{7} \text{ or } 5.2 = 7$

6. Here are five examples of numbers I have changed from standard notation to scientific notation: (write the standard number and the scientific notation)