## Scientific Notation

Name $\qquad$


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.
$6.1 \times 10^{0}=$ $\qquad$ $6.1 \times 10^{1}=$ $\qquad$ $6.1 \times 10^{2}=$
$6.1 \times 10^{3}=$ $\qquad$
$6.1 \times 10^{4}=$
$6.1 \times 10^{5}=$ $\qquad$
$6.1 \times 10^{6}=$ $\qquad$
$6.1 \times 10^{7}=$ $\qquad$ .
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 $\qquad$ digit. Then, count the number of places you moved the decimal. The number of places you moved the decimal is the $\qquad$ of 10 you have multiplied by in order to move that decimal.
6. Here are five examples of numbers I have changed from standard notation to scientific notation: (write the standard number and the scientific notation)
