Name: _____ Date: _____

Understanding Positive and Negative Exponents

	Scientific Notation	Decimal	Fraction	Expanded Form
1	10^3	1,000.0	1000	One thousand
2	10^2			
3	10^1			
4	10^0			
5	10^{-1}			
6	10^{-2}			
7	10^{-3}			

8. What do you notice about the changes from number one to number six? What is the pattern?

_____

_____

	Scientific Notation	Decimal	Fraction	Expanded Form
9	2^3	8.0	8	Eight
10	2^2			
11	2^1			
12	2^0			
13	2^{-1}			
14	2^{-2}			

*15. Thinking Question – 10^0 could be rewritten as $1(10^0)$. How would you rewrite 2^{-3} as a fraction according to the example given in the previous sentence? Show your work on the back of this page.