Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_

Period: \_\_\_\_\_\_\_

**Exponent Quiz**

1. Write  in expanded form. 2. Write  in expanded form.

3. Evaluate:  4. Evaluate: 

5. Are  and  equivalent? **Explain why or why not.**

6. Write  in exponential form.

7. Write  in exponential form.

8. Evaluate:  9. Evaluate: 4 squared

10. **Explain** what the base is when a number is written in exponential form.

11. **Explain** what the exponent means when a number is written in exponential form.

12. Simplify (**show your work**): 

13. Simplify the following expression (**show your work**): 

14. Evaluate: 

15. Write in simplest form: 

Extra Credit: **What is the rule for any number raised to the power of zero**? **Explain** why the rule works.