| Last Name:<br>First Name: | **Understanding Exponents**<br>**Instructions:** Follow the example to answer the questions |
|---|---|

| **Rewrite as multiplication** | **Rewrite as exponential notation--use the symbol on top of the key number 6 (^)** |
|---|---|
| 1. (Example) $5^4$ = 5x5x5x5 | 6. (Example) 6x6x6x6 =6^4 |
| 2. $3^2$ = | 7. 7x7x7x7x7x7 = |
| 3. $2^5$ = | 8. 3x3x3x3x3x3x3= |
| 4. $5^3$= | 9. 2x2x2x2= |
| 5. $7^5$ = | 10. 5x5= |

| **Solve the problems** | **Rewrite as exponential notation** |
|---|---|
| 11. (Example) $5^3$ = 125 | 16. (Example) What is 4 cubed?= 64 |
| 12. $6^2$ = | 17. What is 3 to the power of two? = |
| 13. $2^5$ = | 18. What is 6 to the power of two? = |
| 14. $7^3$= | 19. What is 5 cubed?= |
| 15. $25^2$ = | 20. What is 8 cubed?= |
| | 21. What is 1 to the power of 23? = |
| | 22. Want is zero to the power of 45?= |

**My grade is** _____