

Name _____

Growing Powers

Directions: Complete each table. Then answer the pattern questions.



Table A: Base 2

Exponent Form	Repeated Multiplication	Value
2^1	2	2
2^2		
2^3		
2^4		
2^5		

1. What number is multiplied each time to get the next value?
2. As the exponent increases by 1, what happens to the value?

Table B: Base 3

Exponent Form	Repeated Multiplication	Value
3^1	3	3
3^2		
3^3		
3^4		

3. What number is multiplied each time to get the next value?
4. Which is greater, 3^2 or 3^4 ?
5. Why is 3^4 greater?