Makassed Dawha School
#Teach with Love

Name: _____

Exponents

A power =
a number written as
a base number with an exponent.

base exponent

Like this:

2^5 say 2 to the 5th power

2^2 say 2 to the 2nd power *or* two squared

MOST mathematicians say **two squared**

$2^2 = 2 \times 2 = 4$

2^3 say 2 to the 3rd power *or* two cubed

MOST mathematicians say **two cubed**

$2^3 = 2 \times 2 \times 2 = 8$

1- CHANGE THE FOLLOWING MULTIPLICATION EXPRESSIONS INTO EXPONENTS:

1) $5\times5\times5 =$ _____
2) $4\times4\times4\times4\times4\times4\times4 =$ _____
3) $7\times7\times7\times7\times7 =$ _____
4) $8\times8 =$ _____
5) $2\times2\times2\times2\times2 =$ _____
6) $9 =$ _____
7) $11\times11\times11\times11 =$ _____
8) $6\times6\times6\times6\times6\times6\times6\times6\times6 =$ _____
9) $3\times3\times3\times3\times3\times3\times3\times3\times3 =$ _____
10) $5\times5\times5\times5\times5\times5\times5\times5\times5\times5 =$ _____

2- COMPLETE:

NUMBER	BASE	EXPONENT	EXPANDED NOTATION
4^3			
	7	4	
	4	7	
5^4			

			$3\times3\times3\times3\times3\times3$

3- Find the Value of Each Expression:

1) $7^2 =$ _____

2) $5^5 =$ _____

3) $10^3 =$ _____

4) $2^{11} =$ _____

5) $6^0 =$ _____

6) $6^3 =$ _____

7) $3^1 =$ _____

8) $100^2 =$ _____

9) $3^3 =$ _____

10) $6^5 =$ _____

11) $2^5 =$ _____

12) $10^7 =$ _____

4- Complete:

Exponent Form	Expanded Form	Standard form
10^4		
10^7		
	$10\times10\times10\times10\times10\times10$	
		10,000