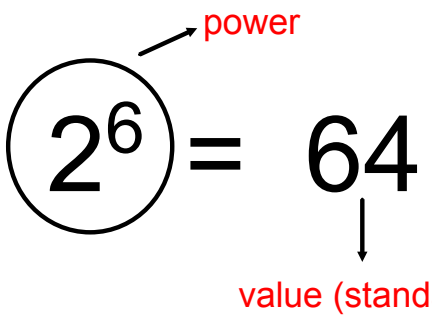
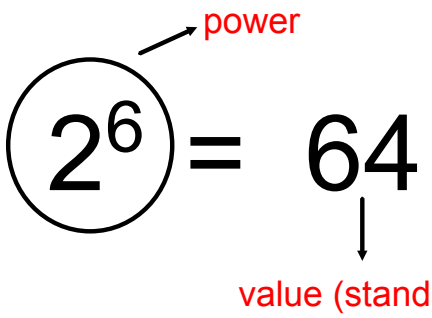
Using Exponents to Describe Numbers

Exponents



where 2 is the **base**
6 is the **exponent**

We say that 64 is written as a power of 2.



where 2 is the **base**
6 is the **exponent**

REPEATED MULTIPLICATION	EXPONENTIAL FORM	STANDARD FORM
2 x 2 x 2	2^3	8
4 x 4 x 4	4^3	64
3 x 3 x 3 x 3	3^4	81
(-2) x (-2) x (-2)	$(-2)^3$	-8
- (2 x 2 x 2 x 2)	-2^4	-16

We can write **repeated multiplication** in a shorter way called **exponential form**.