GLUE HERE

 x^6 means x multiplied by itself 6 times $3 \cdot 4$ means $3 \cdot 3 \cdot 3 \cdot 3$

$$m^6 = m \bullet m \bullet m \bullet m \bullet m \bullet m$$

$$2^8 = 2 \cdot 2 = 356$$

$$4^3 = 4 \cdot 4 \cdot 4 = 64$$

$$9^2 = 9.9 = 81$$

PRACTICE

GLUE HERE

A "Perfect Square" is a number multiplied by itself. It has <u>nothing</u> to do with whether or not the number is odd or even.

$$1^2 = |\cdot| = \boxed{}$$

$$6^2 = 6.6 = 36$$

$$2^2 = 2.2 = 4$$

$$3^2 = 3.3 = 9$$

$$5^2 = 5.5 = 25$$

$$10^2 = 10.10 = 10.10$$

PERFECT SQUARE

GLUE HERE $2^{4} = 2 \cdot 2 \cdot 2 \cdot 2 = 16$ $2^{3} = 2 \cdot 2 \cdot 2 = 8$ $2^{3} = 2 \cdot 2 \cdot 2 = 8$ $2^{2} = 2 \cdot 2 = 4$ $2^{2} = 2 \cdot 2 = 4$ $2^{1} = 2 \cdot 2 \cdot 2 = 5$ $2^{0} = 1$ Any number with an exponent of 0 =

EXPONENT NOTES

 x^0

Exponent

34

Base

= 3 • 3 • 3 • 3

9

81

Power or value means the answer

We can say 2^2 as 2 to the second power or 2 squared We can say 2^3 as 2 to the third power or 2 cubed

VOCABULARY