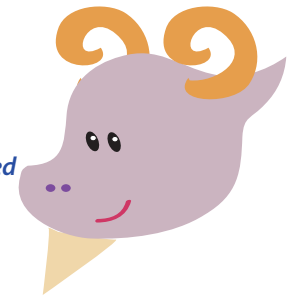
Math
Algebra

Learning About Exponents #2

An exponent is the simplest way to show how many times a number is multiplied by itself.

Example: 4 x 4 x 4 x 4 x 4

The number *4* is multiplied by itself *5* times.



We can write 4^5 ← *exponent* — *Exponent is the number of times the base number is multiplied*

4 ← *base* — *Base is the number*

4^5 can be read as *four, raised to the fifth power* (the exponent is the power).

3^2 If the power is 2, we can read it as *three, raised to the second power* or *three squared.*

2^3 If the power is 3, we can read it as *two, raised to the third power* or *two cubed.*

Turn the exponents into multiplication expressions.

3^3 → _____

2^6 → _____

4^7 → _____

9^2 → _____

Fill in the equations below. See the example.

2 x 2 x 2 x 2 = 2^4 = 16

1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 = ☐ = ☐

3 x 3 x 3 x 3 x 3 = ☐ = ☐