## Go-Math Lesson 1-4

## Algebra - Powers of 10 and Exponents



Expressions with repeating factors can be written by using a base number with an exponent.

The base number is the factor that repeats in multiplication.

The exponent is the number that tells how many times the base number will repeat in multiplication.

## Go-Math Lesson 1-4

$$
\begin{aligned}
& \text { Practice: Find the Value } \\
& 10^{2}=10 \times 10=100 \\
& 10^{3}=10 \times 10 \times 10=1,000 \\
& 10^{4}=10 \times 10 \times 10 \times 10=10,000
\end{aligned}
$$


$4 \times 10^{2}=4 \times(10 \times 10)=400$
$7 \times 10^{3}=7 \times(10 \times 10 \times 10)=7,000$
$12 \times 10^{4}=12 \times(10 \times 10 \times 10 \times 10)=120,000$

## Go-Math Lesson 1-4

## How to Say Exponents:

$10^{2}=10$ to the $2^{\text {nd }}$ power or 10 squared
$10^{3}=10$ to the $3^{\text {rd }}$ power or 10 cubed
$10^{4}=10$ to the $4^{\text {th }}$ power
$10^{5}=10$ to the $5^{\text {th }}$ power

## A few tricky ones.....


$10^{1}=$ We do not say 10 to the first power, it is just 10
$10^{0}=$ We do not say 10 to the zero power, it is just 1 Any number to the power of zero is 1.

## Go-Math Lesson 1-4

Your tasks:

1. Complete Google Classroom Lesson 1.4 Check-in
2. Complete Think Central assignments by the day
3. Watch videos posted on the website
4. Complete IXL Skills for the week

You have a lot to do - Don't waste time!

