## Patterns:

a repetition (something that is repeated)

- 1) 9, 11, 13, 15, 17, 19, \_\_\_
- 2) 1,7,13,19,25,31,\_\_\_
- 3) 8, 11, 14, 17, 20, 23, \_\_\_
- 4) 9, 16, 23, 30, 37, 44, \_\_\_

MathATube.com

#### Repeated Addition:

a strategy to multiply numbers where the same number is added multiple times



# **Equal Groups:**

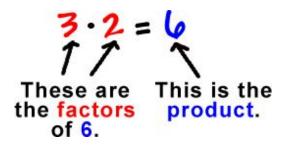
having the same amount of something in each cluster or category

# **Equation:**

a mathematical 🥠 x 🗢 = 🍕 sentence with an equal sign

## Factors:

numbers that are multiplied to give a product



## Product:

the answer to a multiplication product

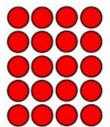
## Multiplication:

a mathematical operation that combines equal groups



## Array:

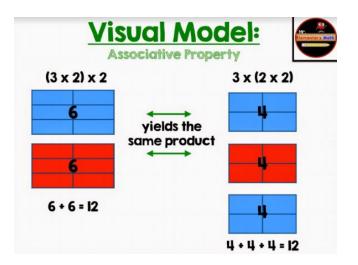
a set of objects or numbers arranged in order in rows & columns



## Repeated Groups:

having the same number in each group each time

4 groups of bananas  $4 \times (3) = 3 + 3 + 3 + 3 = 12$ 

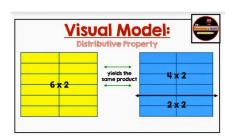


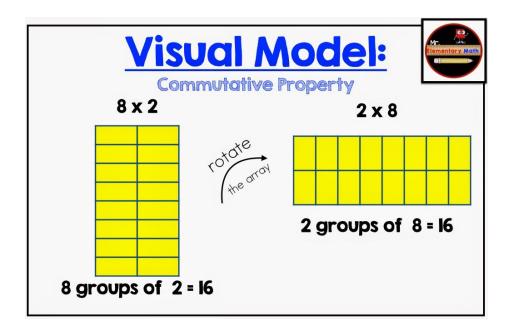
## **Associative Property:**

In addition & multiplication: no matter how the numbers are grouped, the answer will always be the same

## Distributive Property:

the product of a factor and a sum equals the sum of the product





# Commutative Property:

In addition & multiplication: numbers can be added or multiplied in any order