

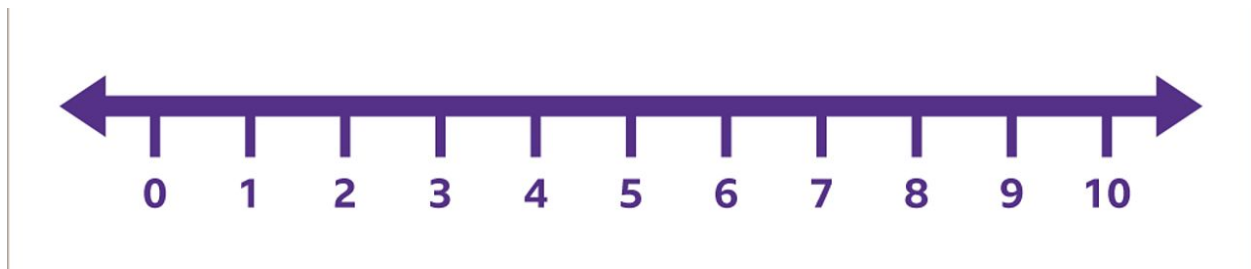
# EXPONENTS

**Or, taking multiplication to next level**

# WHERE WE'VE COME FROM

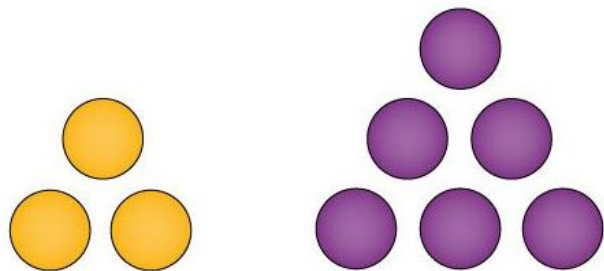
## Counting

- 1, 2, 3
- in order



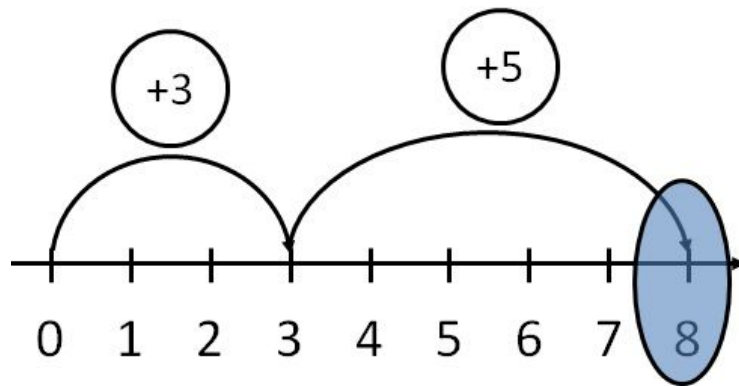
# ADDITION (PLUS)

- $15 + 36$
- Jumps of counting



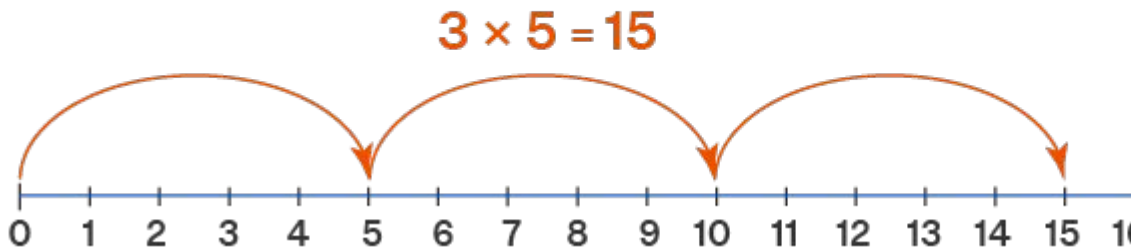
$$3 + 6 = 9$$

*teachoo.com*



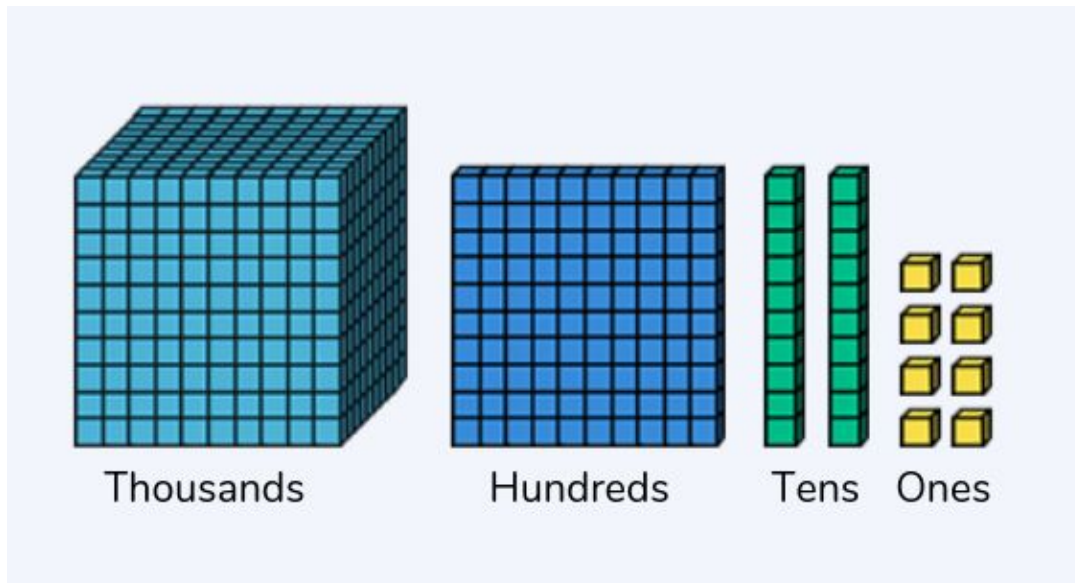
# MULTIPLICATION (TIMES)

- E.g.  $5 \times 8$
- Imagine: rows of the same length
- Repeated addition



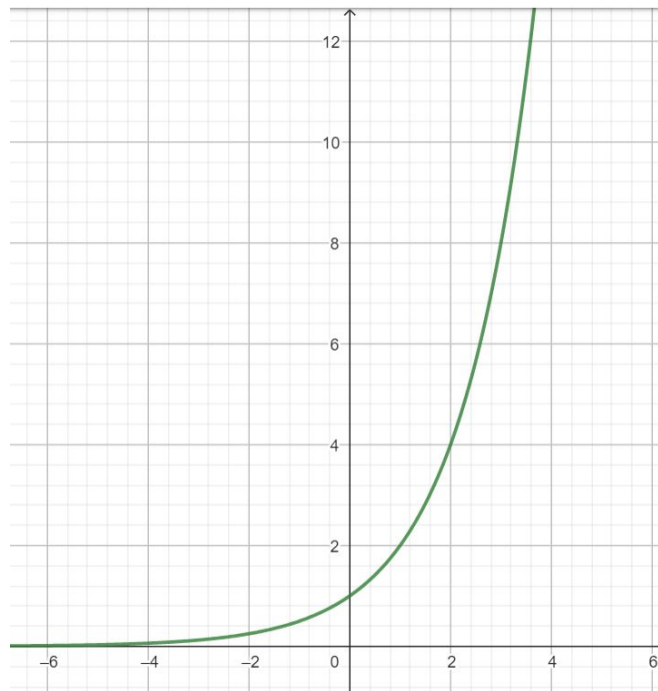
# NEXT STOP: EXPONENTS

Repeated multiplication!



Like place value, but for numbers other than just 10

WHERE WE'RE GOING WE DON'T NEED NUMBER LINES



I PROMISE WE'LL  
STOP STACKING  
OPERATIONS AFTER  
EXPONENTS