

# Math Properties

## COMMUTATIVE PROPERTY (Ordering)

Words	Numbers
You can add or multiply numbers in any order.	$18 + 9 = 9 + 18$ $15 \times 2 = 2 \times 15$

## ASSOCIATIVE PROPERTY (Grouping)

Words	Numbers
When you are only adding or only multiplying, you can group any of the numbers together.	$(17 + 2) + 9 = 17 + (2 + 9)$ $(12 \times 2) \times 4 = 12 \times (2 \times 4)$

### Caution!

The Commutative and Associative Properties do not apply to subtraction or division.

## DISTRIBUTIVE PROPERTY

Words	Numbers
To multiply a number by a sum, multiply by each number in the sum and then add.	$6 \times (10 + 4) = (6 \times 10) + (6 \times 4)$ $= 60 + 24$ $= 84$