Associative Property

Addition and Multiplication

Associative property of Addition

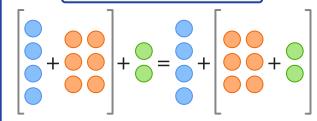
The associative property tells us we can change the grouping of a problem and answer will stay the same



In other words the order dose not matter, but it is only works for addition and multiplication

We use parenthesis () to group numbers in mathematics

Example



$$(4+6)+2=4+(6+2)$$

$$10 + 2 = 4 + 8$$

$$12 = 12$$

Do you see how we get same answer. Even though we change the grouping?

Associative property of Multiplication

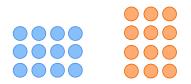
We have take a look at the associative property of addition now let's look at the associative property of multipliction.



$$a \times b \cdot c \equiv a \cdot b \times c$$

Again by moving the parenthesis around we can re-group to simplify a problem or even make it easier to solve.

Example



3 rows of 4 = 4 rows of 3

$$(5 \times 4) \times 2$$
 $5 \times (4 \times 2)$
= 20×2 = 5×8
= 40 = 40

Assignment

Re-group and simplify. Make sure you show your work