

$$a+b = b+a$$

or

$$a \cdot b = b \cdot a$$

Same numbers  
just changes order

$$a+0 = a$$

$$a \cdot 1 = a$$

one side equals  
the other!

$$5+0 = 5$$

Anything times  
0 is 0

$$3 \cdot 0 = 0$$

$$9(0) = 0$$

party

$$a+(b+c) = (a+b)+c$$

$$a \cdot (b \cdot c) = (a \cdot b) \cdot c$$

same order  
i.e. ... 1 2 3 4 5 6 7 8 9 10

$$a \cdot \frac{1}{a} = 1$$

or

$$a + (-a) = 0$$

take the opposite  
or inverse!

$$5 \cdot \frac{1}{5} = 1$$

$$a(b+c) = ab+ac$$

passes to the inside  
Handshakes to meet

$$4(b+2) = (4 \cdot b) + (4 \cdot 2)$$

$$3(a-2) = (3 \cdot a) - (3 \cdot 2)$$