



Multiplication:  
Commutative & Distributive Properties



# Commutative Property

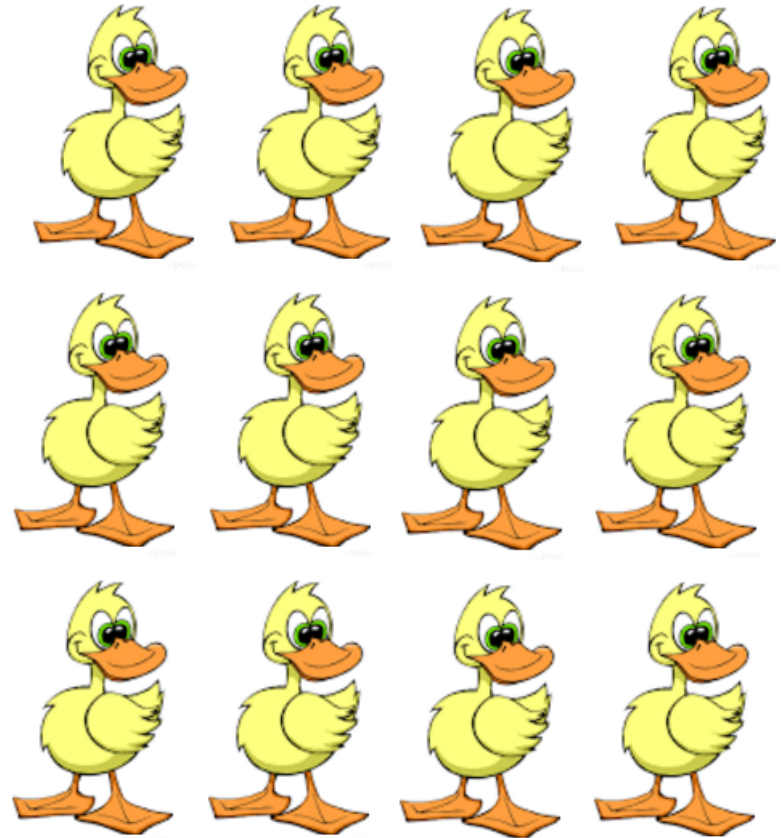
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$$3 \times 4 = 4 + 4 + 4 = 12$$

(3 is the multiplier)

$$4 \times 3 = 3 + 3 + 3 + 3 = 12$$

(4 is the multiplier)



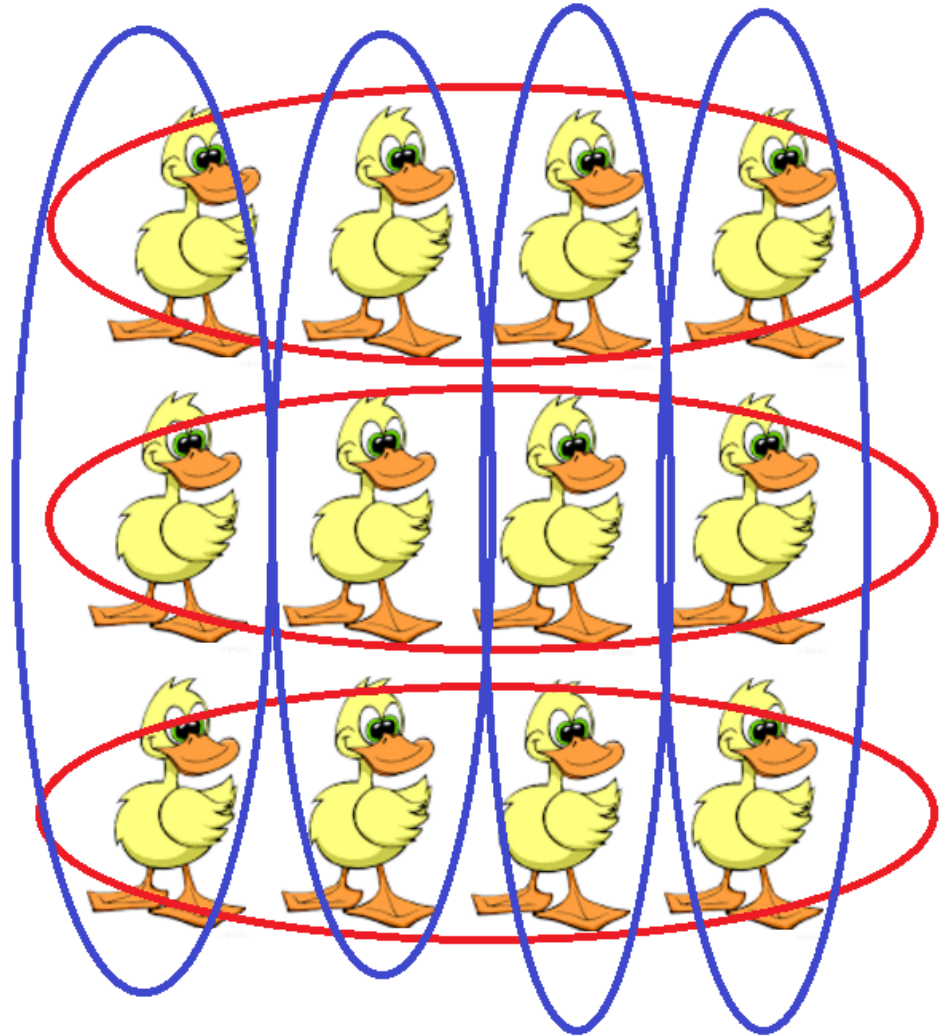
# Commutative Property

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“commuting to work”

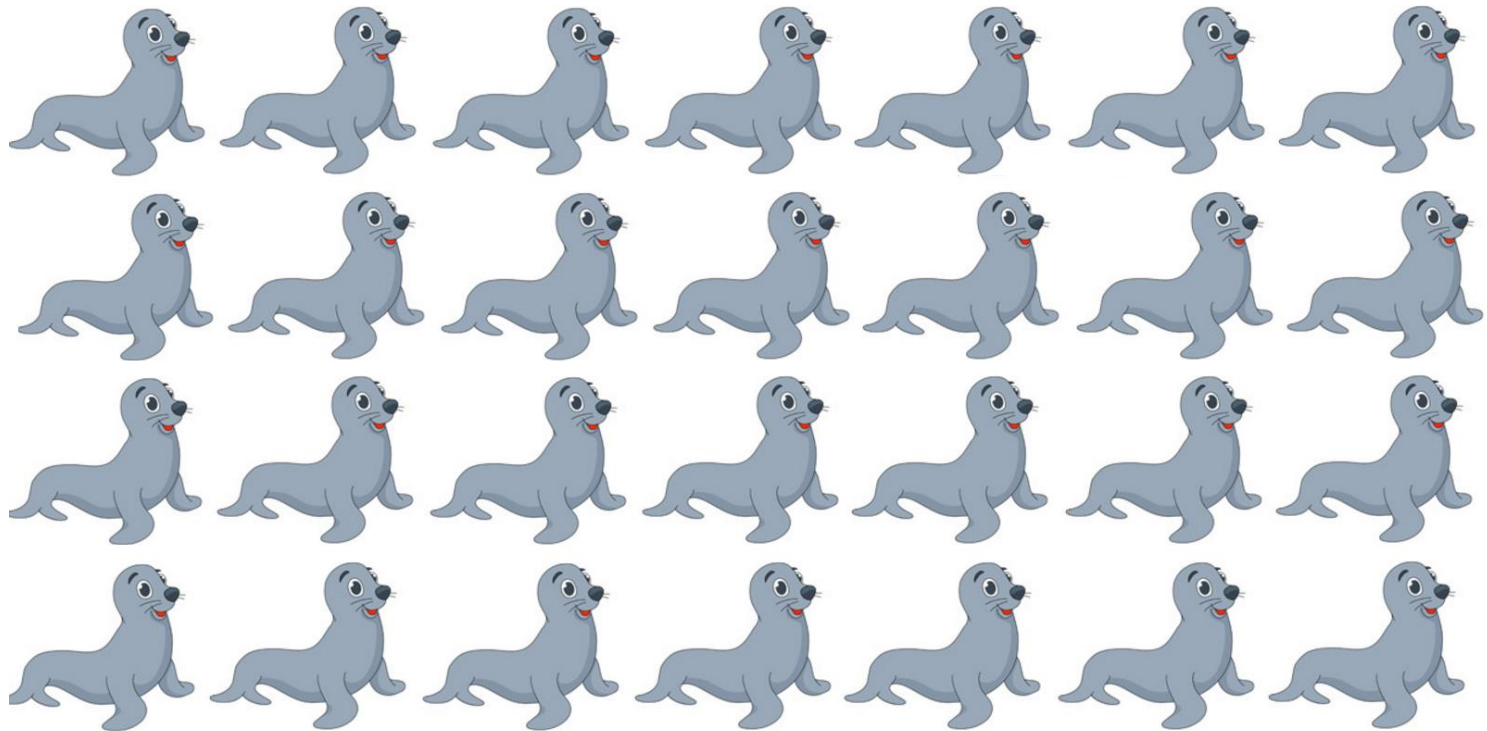
$$3 \times 4 = 4 \times 3$$

**3 sets of 4**  
is the same as  
**4 sets of 3**



# Distributive Property

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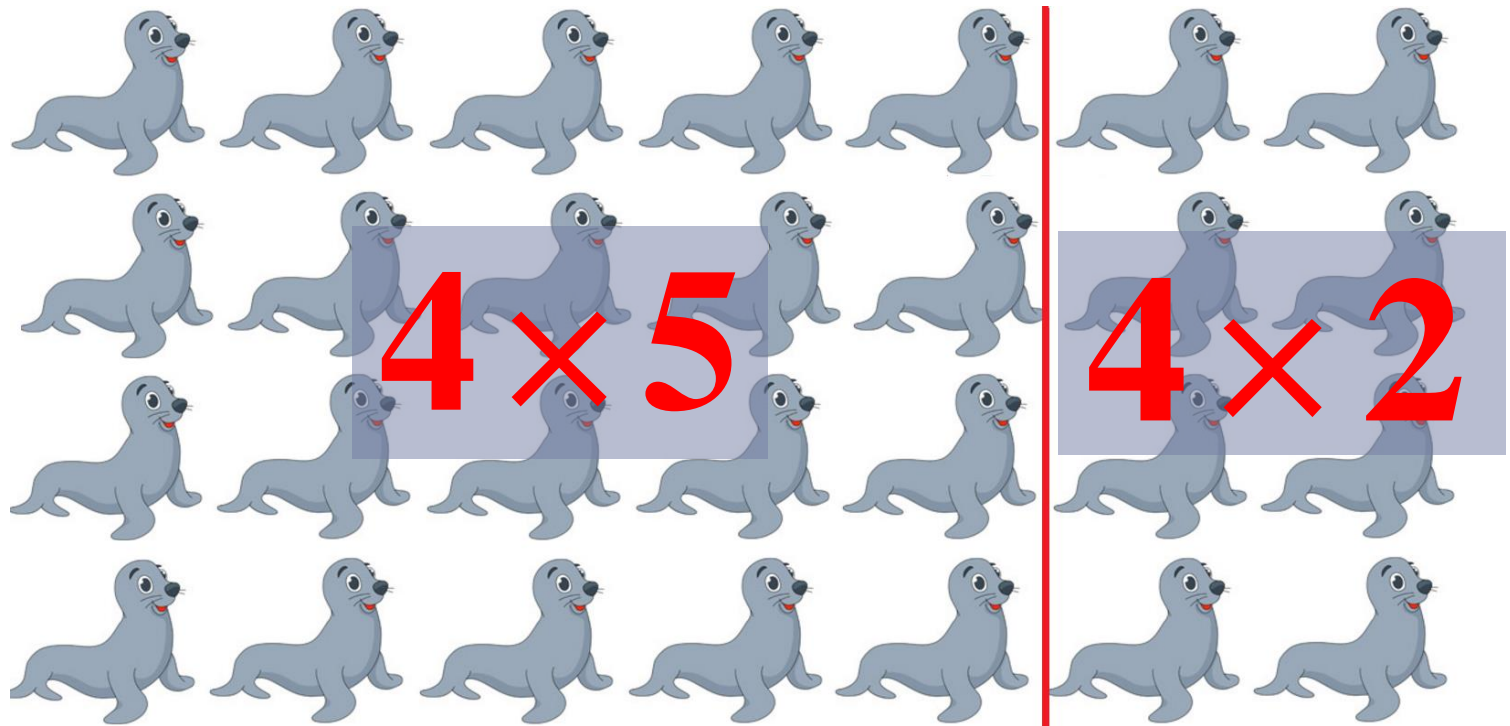
$$4 \times 7$$

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# Distributive Property

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$$4 \times 7 = 4 \times 5 + 4 \times 2$$

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# Times Tables (CCSSM : 3<sup>rd</sup> Grade)

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X	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

Source: Math-Salamanders

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