Properties of Operations as Strategies - Guided Lesson Explanation

Explanation to #1

Step 1) We have to add (4 + 7) and 10.

Step 2) Second we have to add 4 and (7 + 10).

Step 3) We will get get the same answer and that is 21.

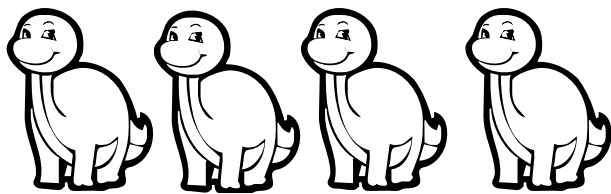$$(4+7)+10 = 4+(7+10)$$

$$\boxed{11} +10 = 4+ \boxed{17}$$

$$\boxed{21} \quad = \quad \boxed{21}$$
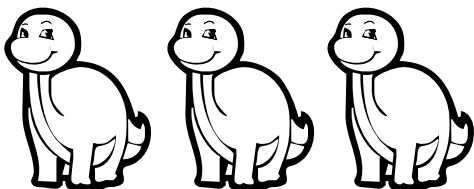
This is associative property.

Explanation to #2
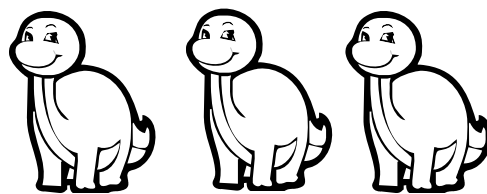
Step 1) We have to add all the pictures.

Step 2) Using the Commutative Property, either we add 4 pictures + 3 pictures or vice versa answer will be same.
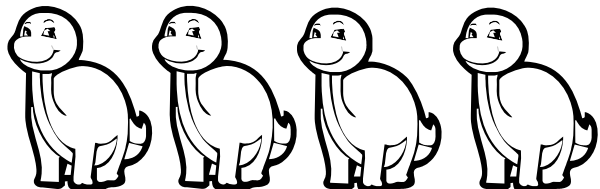

4 + 3 = 7   3 + 4 = 7

This is commutative property.

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Explanation to #3

Step 1) What is being asked of you?

Step 2) The first expression is

$(3+6)+7$ or $3 + 6 = 9 + 7 = 16$

The second one will be

$3+(6+7)$ or $6 + 7 = 13 + 3 = 16$

Step 3) For verifying the answer, we add both the equations.

$(3+6)+7 = 16$

$3+(6+7) = 16$

This is associative property of addition.