



## PROPIEDAD CONMUTATIVA Y ASOCIATIVA DE LA SUMA



### Conmutativa

Si cambias el orden de los sumandos, la suma total no cambia.



### Asociativa

Si agrupas los sumandos de diferente manera, la suma total no cambia.

Aplica la propiedad conmutativa de la suma y resuelve.

| C | D | U |
|---|---|---|
| 2 | 2 | 4 |
| + | 4 | 8 |
|   |   |   |

| C | D | U |
|---|---|---|
|   |   |   |
| + |   |   |
|   |   |   |

| C | D | U |
|---|---|---|
| 1 | 0 | 3 |
| + | 1 | 0 |
|   |   |   |

| C | D | U |
|---|---|---|
|   |   |   |
| + |   |   |
|   |   |   |

| C | D | U |
|---|---|---|
| 3 | 7 | 8 |
| + | 1 | 2 |
|   |   |   |

| C | D | U |
|---|---|---|
|   |   |   |
| + |   |   |
|   |   |   |

Aplica la propiedad Asociativa de la suma y resuelve.

$$(220 + 150) + 101 = 220 + (150 + 101)$$

$$\boxed{\phantom{00}} + \boxed{\phantom{00}} = \boxed{\phantom{00}} + \boxed{\phantom{00}}$$
$$\boxed{\phantom{00}} = \boxed{\phantom{00}}$$

$$(135 + 105) + 430 = 135 + (105 + 430)$$

$$\boxed{\phantom{00}} + \boxed{\phantom{00}} = \boxed{\phantom{00}} + \boxed{\phantom{00}}$$
$$\boxed{\phantom{00}} = \boxed{\phantom{00}}$$

$$(300 + 325) + 100 = 300 + (325 + 100)$$

$$\boxed{\phantom{00}} + \boxed{\phantom{00}} = \boxed{\phantom{00}} + \boxed{\phantom{00}}$$
$$\boxed{\phantom{00}} = \boxed{\phantom{00}}$$