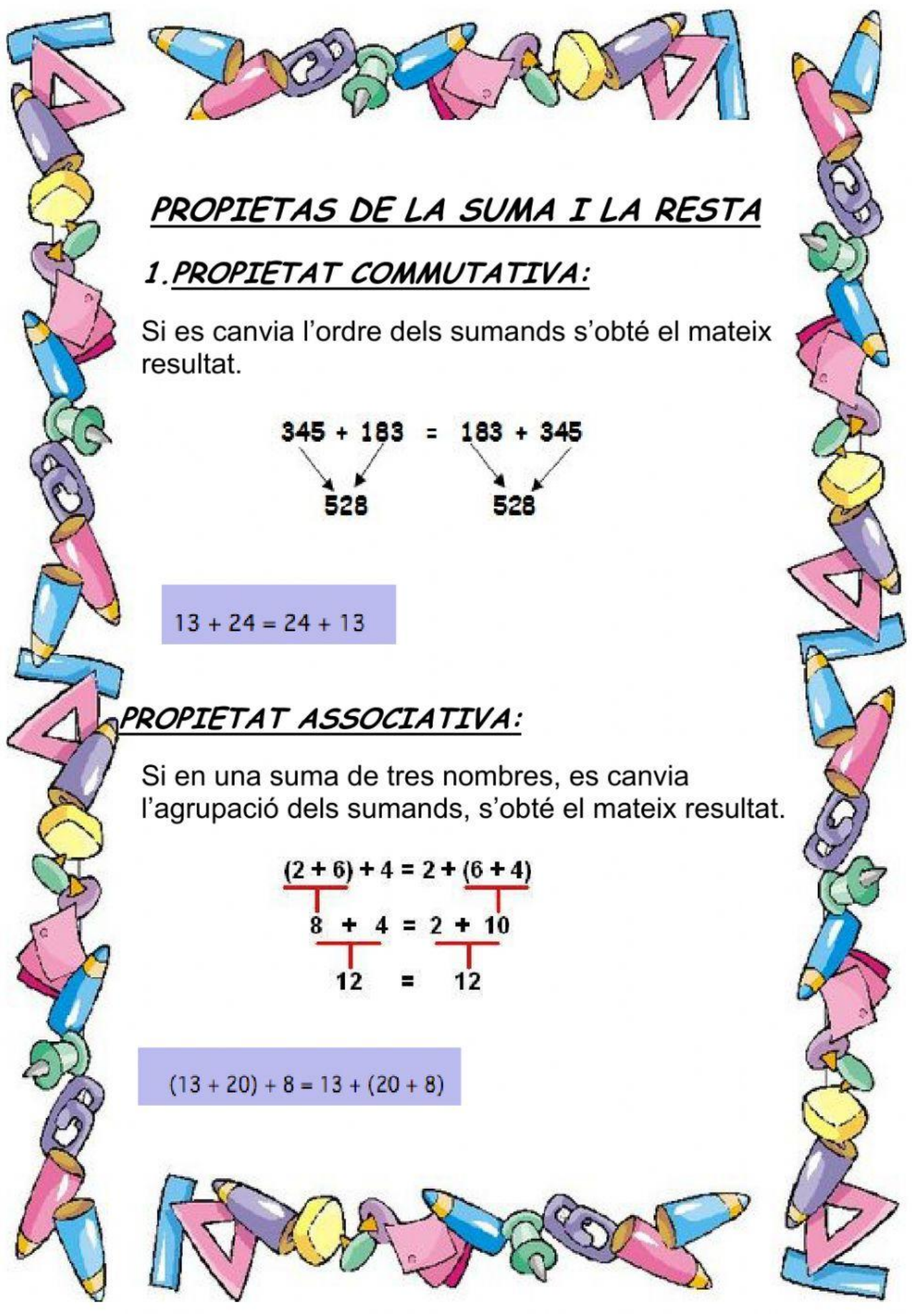




PROPIETAS DE LA SUMA I LA RESTA

1. PROPIETAT COMMUTATIVA:

Si es canvia l'ordre dels sumands s'obté el mateix resultat.

$$\begin{array}{ccc} 345 + 183 & = & 183 + 345 \\ \swarrow \quad \searrow & & \swarrow \quad \searrow \\ & 528 & \end{array}$$

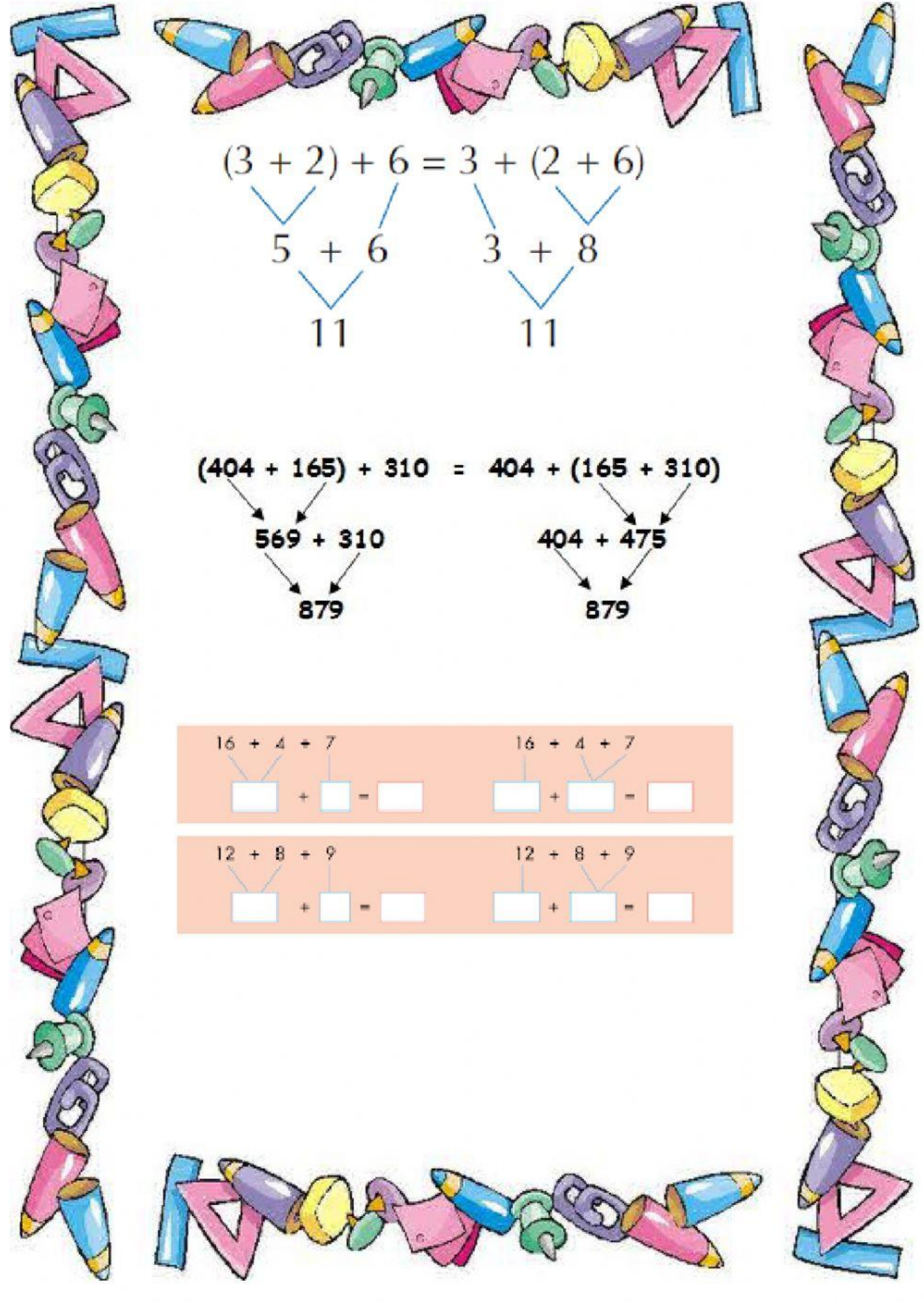
$$13 + 24 = 24 + 13$$

PROPIETAT ASSOCIATIVA:

Si en una suma de tres nombres, es canvia l'agrupació dels sumands, s'obté el mateix resultat.

$$\begin{array}{ccc} (2 + 6) + 4 & = & 2 + (6 + 4) \\ \hline 8 + 4 & = & 2 + 10 \\ \hline 12 & = & 12 \end{array}$$

$$(13 + 20) + 8 = 13 + (20 + 8)$$



$$(3 + 2) + 6 = 3 + (2 + 6)$$

$$\begin{array}{ccc} & \swarrow & \searrow \\ 3 & & 2 \\ & \swarrow & \searrow \\ 5 & + & 6 \\ & \swarrow & \searrow \\ & 11 & \end{array} \quad \begin{array}{ccc} & \swarrow & \searrow \\ 3 & & 2 \\ & \swarrow & \searrow \\ 3 & + & 8 \\ & \swarrow & \searrow \\ & 11 & \end{array}$$

$$(404 + 165) + 310 = 404 + (165 + 310)$$

$$\begin{array}{ccc} & \swarrow & \searrow \\ 404 & & 165 \\ & \swarrow & \searrow \\ 569 & + & 310 \\ & \swarrow & \searrow \\ & 879 & \end{array}$$

$$\begin{array}{ccc} & \swarrow & \searrow \\ 165 & & 310 \\ & \swarrow & \searrow \\ 404 & + & 475 \\ & \swarrow & \searrow \\ & 879 & \end{array}$$

$$16 + 4 + 7$$

$$\square + \square = \square$$

$$16 + 4 + 7$$

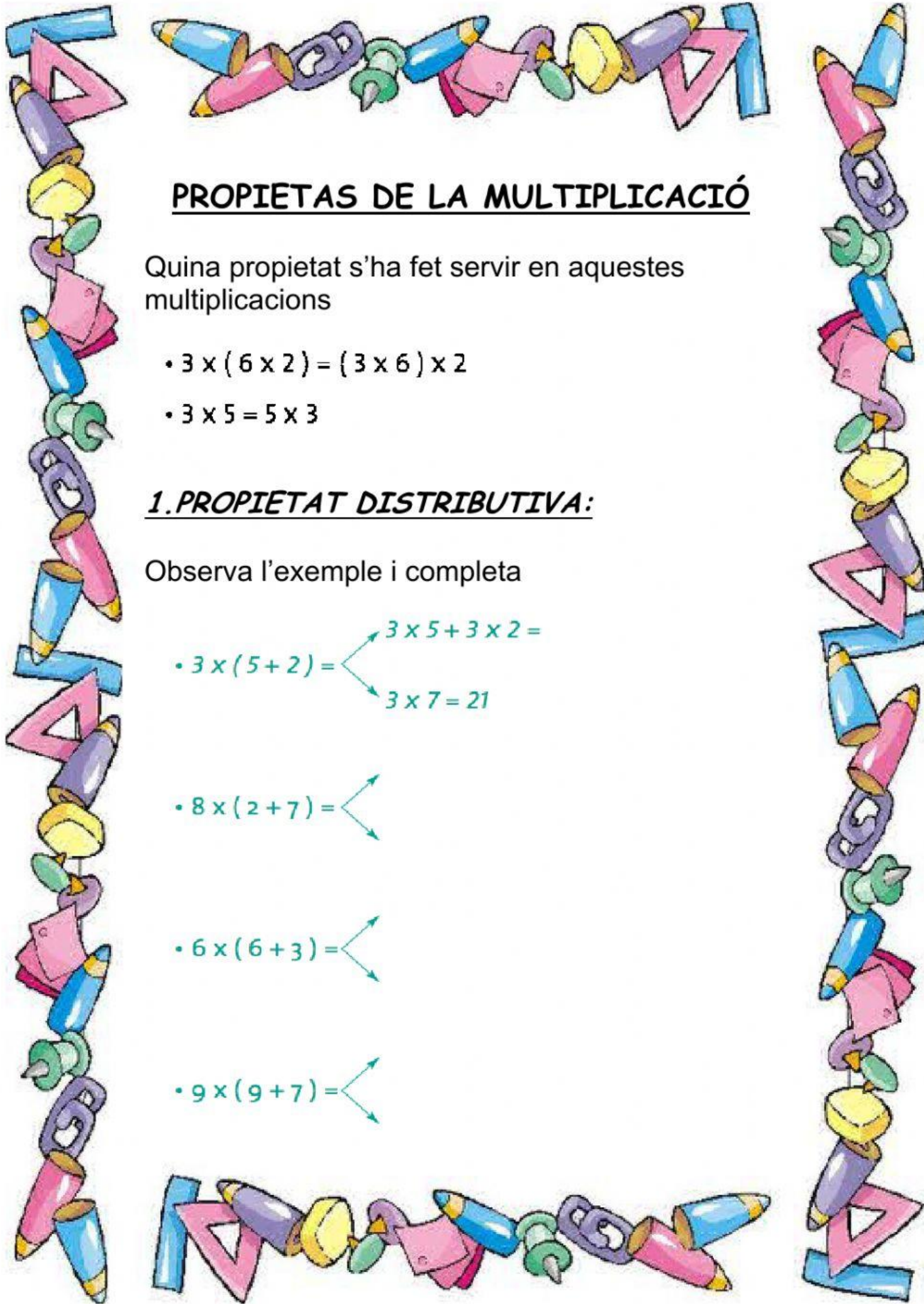
$$\square + \square = \square$$

$$12 + 8 + 9$$

$$\square + \square = \square$$

$$12 + 8 + 9$$

$$\square + \square = \square$$



PROPIETAS DE LA MULTIPLICACIÓ

Quina propietat s'ha fet servir en aquestes multiplicacions

- $3 \times (6 \times 2) = (3 \times 6) \times 2$
- $3 \times 5 = 5 \times 3$

1. PROPIETAT DISTRIBUTIVA:

Observa l'exemple i completa

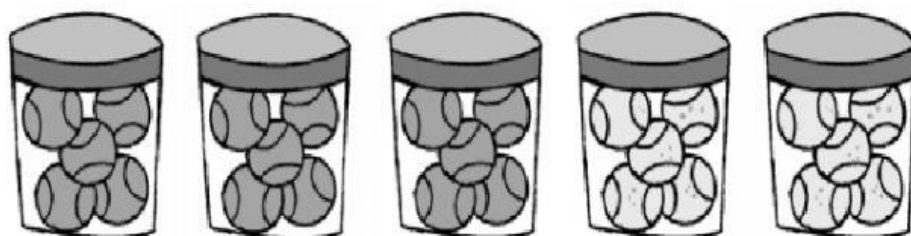
$$\begin{aligned} \bullet 3 \times (5 + 2) &= \begin{cases} 3 \times 5 + 3 \times 2 = \\ 3 \times 7 = 21 \end{cases} \end{aligned}$$

$$\bullet 8 \times (2 + 7) = \begin{cases} \\ \end{cases}$$

$$\bullet 6 \times (6 + 3) = \begin{cases} \\ \end{cases}$$

$$\bullet 9 \times (9 + 7) = \begin{cases} \\ \end{cases}$$

Expressa de dues maneres el nombre de pilotes que ha comprat Joan.



① →

② →

$$8 + (6 + 2) = \square$$

$$9 + (4 - 3) = \square$$

$$8 + (6 - 2) = \square$$

$$9 + (4 + 3) = \square$$

$$8 - (6 - 2) = \square$$

$$9 - (4 + 3) = \square$$

$$8 - (6 + 2) = \square$$

$$9 - (4 - 3) = \square$$

$$9 + 14 - 5 = \square$$

$$(8 + 6) \times 2 = \square \times \square = \square$$

$$(13 - 4) \times 6 + 162 = \square \times \square + \square = \square + \square = \square$$