



BATUKETAREN PROPIETATEAK



BATUKETAREN TRUKATZE PROPIETATEA

adilidea

Bi batugai batzean, batuketaren emaitza ez da aldatzen, batugaien ordena aldatu arren.

$$13 + 12 = 25$$

$$12 + 13 = 25$$

$$15 + \dots = 25 + 15$$

$$\dots + 15 = 15 + 32$$

$$26 + 23 = \dots + 26$$

$$25 + 11 = 11 + \dots$$

$$10 + \dots = 29 + \dots$$

$$70 + \dots = 26 + \dots$$



BATUKETAREN ELKARTZE PROPIETATEA

adilidea

Hiru zenbaki batzeko, lehenengo bi batugai batzen ditugu, eta haien baturari hirugarrena batzen diogu gero.

$$\begin{array}{lcl} (250 + 225) + 90 & = & 250 + (225 + 90) \\ \swarrow \quad \searrow & & \swarrow \quad \searrow \\ 475 + 90 & = & 250 + 315 \\ \swarrow \quad \searrow & & \swarrow \quad \searrow \\ 565 & = & 565 \end{array}$$

$$20 + (15 + 42) = (20 + 15) + 42$$

$$\begin{array}{c} \swarrow \quad \searrow \\ \square + \square \\ \swarrow \quad \searrow \\ \square \end{array}$$

$$\begin{array}{c} \swarrow \quad \searrow \\ \square + \square \\ \swarrow \quad \searrow \\ \square \end{array}$$

$$30 + (25 + 16) = (30 + 25) + 16$$

$$\begin{array}{c} \swarrow \quad \searrow \\ \square + \square \\ \swarrow \quad \searrow \\ \square \end{array}$$

$$\begin{array}{c} \swarrow \quad \searrow \\ \square + \square \\ \swarrow \quad \searrow \\ \square \end{array}$$

