

# RETO

## Los cuatro 4



### Posibles soluciones:

- $0 = 4 - 4 + 4 - 4$   
 $1 = 4/4 + 4 - 4$   
 $2 = (4/4) + (4/4)$   
 $3 = ((4*4) - 4)/4$   
 $4 = 4*(4 - 4) + 4$   
 $5 = \sqrt{4} + \sqrt{4} + 4/4$   
 $6 = \sqrt{4} * (4 - 4/4)$   
 $7 = 4 + 4 - 4/4$   
 $8 = 4 * \sqrt{4} + 4 - 4$   
 $9 = (4 - 4/4)^{\sqrt{4}}$   
 $10 = 4 * \sqrt{4} + 4/\sqrt{4}$   
 $11 = 44/(\sqrt{4} * \sqrt{4})$   
 $12 = (\sqrt{4} + \sqrt{4} + \sqrt{4}) * \sqrt{4}$   
 $13 = 44/4 + \sqrt{4}$   
 $14 = 4*4 - 4/\sqrt{4}$   
 $15 = 44/4 + 4$   
 $16 = \sqrt{4} * \sqrt{4} * \sqrt{4} * \sqrt{4}$   
 $17 = 4*4 + 4/4$   
 $18 = 44/\sqrt{4} - 4$   
 $19 = 4! - 4 - 4/4$   
 $20 = (4/4 + 4) * 4$   
 $21 = 4! - 4/4 - \sqrt{4}$   
 $22 = 4*4 + 4 + \sqrt{4}$   
 $23 = 4! - \sqrt{4} * \sqrt{4}/4$   
 $24 = 4! + 4 - \sqrt{4} - \sqrt{4}$   
 $25 = 4! + \sqrt{4} * \sqrt{4}/4$   
 $26 = 4! + \sqrt{4} * \sqrt{4}/\sqrt{4}$   
 $27 = 4! + 4/4 + \sqrt{4}$   
 $28 = 4! + 4*4/4$   
 $29 = 4! + 4 + 4/4$   
 $30 = ((4+4/4)!)/4$   
 $31 = ((4! + 4) / 4) + 4!$   
 $32 = 4^{\sqrt{4}} + 4^{\sqrt{4}}$   
 $33 = 44/(\sqrt{4} * \sqrt{4})$   
 $34 = ((4*4) * \sqrt{4}) + \sqrt{4}$   
 $35 = (4!) + (44/4)$   
 $36 = (4!*4)/(4*4)$   
 $37 = (4! + \sqrt{4}) / \sqrt{4} - \sqrt{4}$   
 $38 = 44 - (4 + \sqrt{4})$   
 $39 = (4! + 4 - \sqrt{4}) / \sqrt{4}$   
 $40 = (4!) + (4!) - 4 - 4$   
 $41 = (4! + \sqrt{4}) / \sqrt{4} + \sqrt{4}$   
 $42 = 44 - (4/\sqrt{4})$   
 $43 = 44 - (4/4)$   
 $44 = 44 + 4 - 4$   
 $45 = 44 + (4/4)$   
 $46 = ((4!) - 4) / \sqrt{4}$   
 $47 = ((4!) - 4 - \sqrt{4}) / \sqrt{4}$   
 $48 = (4!) * \sqrt{4} + 4 - 4$   
 $49 = 4! * \sqrt{4} + 4/4$   
 $50 = (4!) * \sqrt{4} + 4 - \sqrt{4}$   
 $51 = (4!/4) - \sqrt{4}$   
 $52 = (4!) * \sqrt{4} + \sqrt{4} + \sqrt{4}$   
 $53 = (4!/4...) - 4/4$   
 $54 = (4!/4...) + 4 - 4$   
 $55 = (4!/4...) + 4/4$   
 $56 = 4! * \sqrt{4} + 4 + 4$   
 $57 = (4!/4...) + \sqrt{4}/4$   
 $58 = (4!/4) - 4/\sqrt{4}$   
 $59 = (4!/4...) + \sqrt{4}/4$   
 $60 = (4!/4...) + 4/\sqrt{4}$   
 $61 = (4!/4) + 4/4$   
 $62 = (4!/4...) + 4 + 4$   
 $63 = (4^4)/4$   
 $64 = 4! * \sqrt{4} + 4 * 4$   
 $65 = (4!/4) + \sqrt{4}/4$   
 $66 = (4!/4...) + 4/\sqrt{4}$   
 $67 = ((4! + 4)/4) + 4$   
 $68 = (4!/4) + 4 + 4$   
 $69 = (4!/4) + 4/4$   
 $70 = (4!/4...) + 4*4$   
 $71 = (4!+4)/4$   
 $72 = (4!*4)/(\sqrt{4}*4)$   
 $73 = (4! + 4! + \sqrt{4}) / \sqrt{4}$   
 $74 = 4!+4!+4!+\sqrt{4}$   
 $75 = (4!+4!)/4$   
 $76 = 4!+4!+4!+4$   
 $77 = (4/4...) * \sqrt{4} - 4$   
 $78 = (4! - 4) - 4 - \sqrt{4}$   
 $79 = (4/4...) * \sqrt{4} - \sqrt{4}$   
 $80 = ((4^{\sqrt{4}})/4) * \sqrt{4}$   
 $81 = (4 - 4/4)^4$   
 $82 = (4! - 4) + 4 + \sqrt{4}$   
 $83 = (4/4...) * \sqrt{4} + \sqrt{4}$   
 $84 = 44 * \sqrt{4} - 4$   
 $85 = (4/4...) * \sqrt{4} + 4$   
 $86 = 44/4 - 4!$   
 $87 = (4! * 4) - (4/4)$   
 $88 = (4^4)/4 + 4!$   
 $89 = (\sqrt{4} + 4!) / 4 + 4!$   
 $90 = (4 + \sqrt{4})! / (4 - \sqrt{4})$   
 $91 = (4! * 4) - (\sqrt{4}/4)$   
 $92 = 44 + 4! + 4!$   
 $93 = 4! - 4 - \sqrt{4}$   
 $94 = (4!) * 4 - 4 + \sqrt{4}$   
 $95 = 4*4! - 4/4$   
 $96 = 4 * 4! + 4 - 4$   
 $97 = 4 * 4! + 4/4$   
 $98 = 4! * 4 + 4 - \sqrt{4}$   
 $99 = ((4! - \sqrt{4}) * \sqrt{4}) / 4$   
 $100 = 4! * 4 + \sqrt{4} * \sqrt{4}$

Como véis muchos de estos números se consiguen con contenidos matemáticos que el alumnado de primaria aún no ha estudiado, por lo que el objetivo puede ser cuántos números se han conseguido de media y distintas formas de obtener un mismo número.

Recuerda: ¡Lo importante es participar y fomentar la creatividad!

