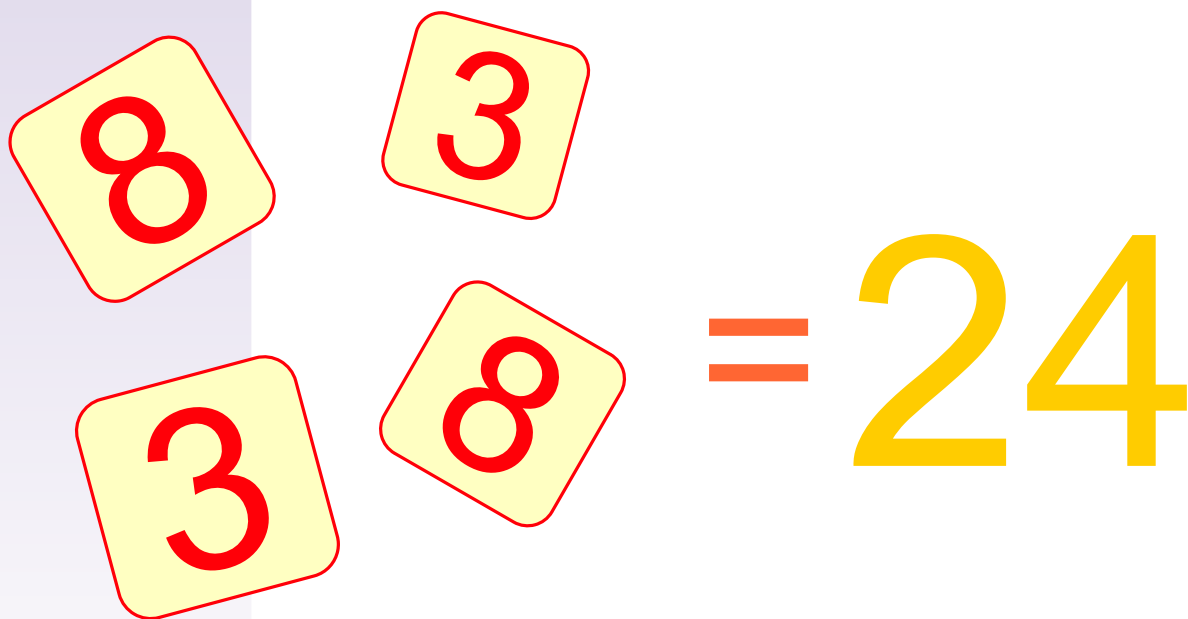


Treasure of Classic
and Modern Puzzles

Pencil 'n' Paper Puzzles



$$\dots \square \dots \square \dots \square \dots \square \dots = 24$$

Twenty4 puzzle*

by Wei-Hwa Huang

The object of this puzzle is using the four numbers 3,3,8, and 8 as shown in the illustration and the usual arithmetic operations (plus, minus, multiply and divide) make exactly 24. Of course, you can use brackets, but no tricks like powers, cube roots, or putting 8 and 3 to make 83 are allowed. Just pure maths.

*This puzzle was inspired to the publication on our site by a message from Kim C.

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$$\boxed{8} / (\boxed{3} - \boxed{8} / \boxed{3}) = 24$$
$$8 / (3 - 8/3) = 24$$

Twenty4 puzzle (solution)

The solution is shown in the illustration.

The first operation within the brackets gives you exactly $1/3$ because 3 could be written as $9/3$, and $9/3$ minus $8/3$ equals exactly $1/3$.

The second operation ($8 / 1/3$) could be written in another way as 8×3 (according to mathematical rules) which is exactly 24.