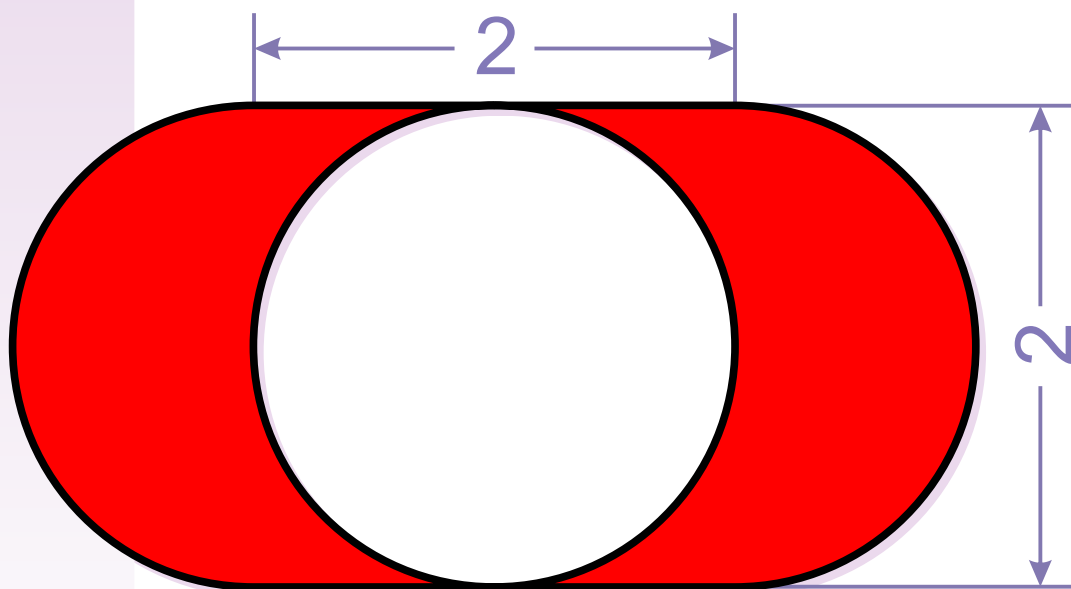


Treasure of Classic
and Modern Puzzles

Geometrical Puzzles



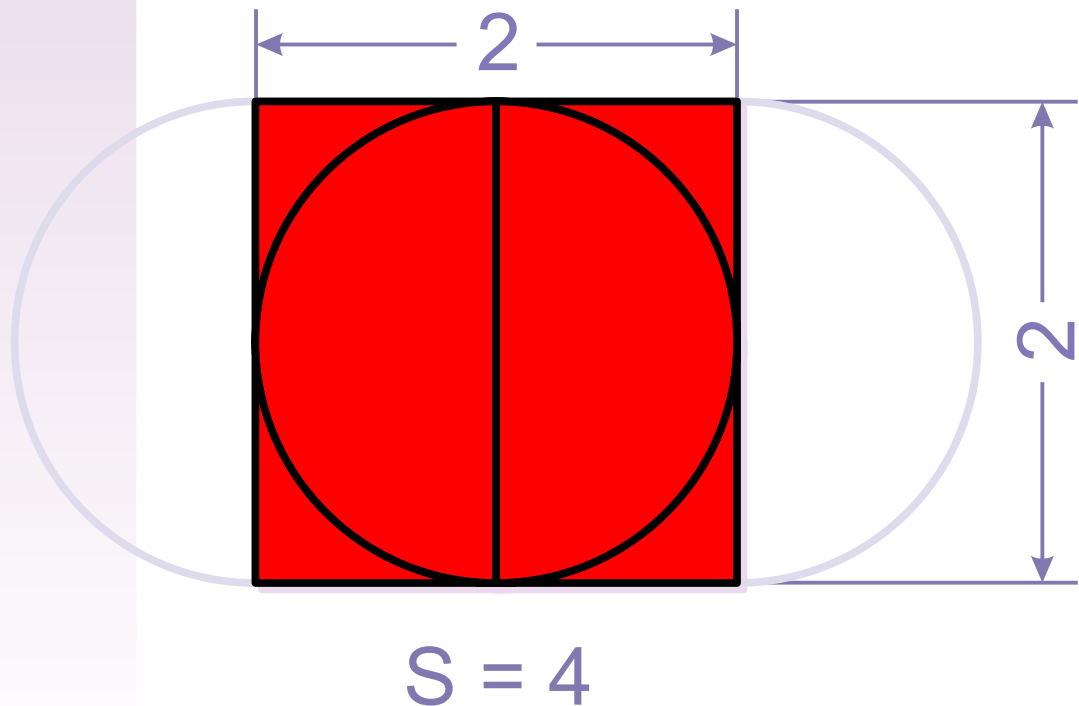
Outside the Hole

after Martin Gardner

A paper sheet has the shape of a two-unit square with semicircles on opposite sides. If a disk with a diameter of two units is removed from the center as shown in the illustration, what is the area of the remaining paper?

Treasure of Classic
and Modern Puzzles

Geometrical Puzzles



Outside the Hole (solution)

The two semicircles together form a circle that fits the hole. The remaining paper therefore has a total area of four square units.