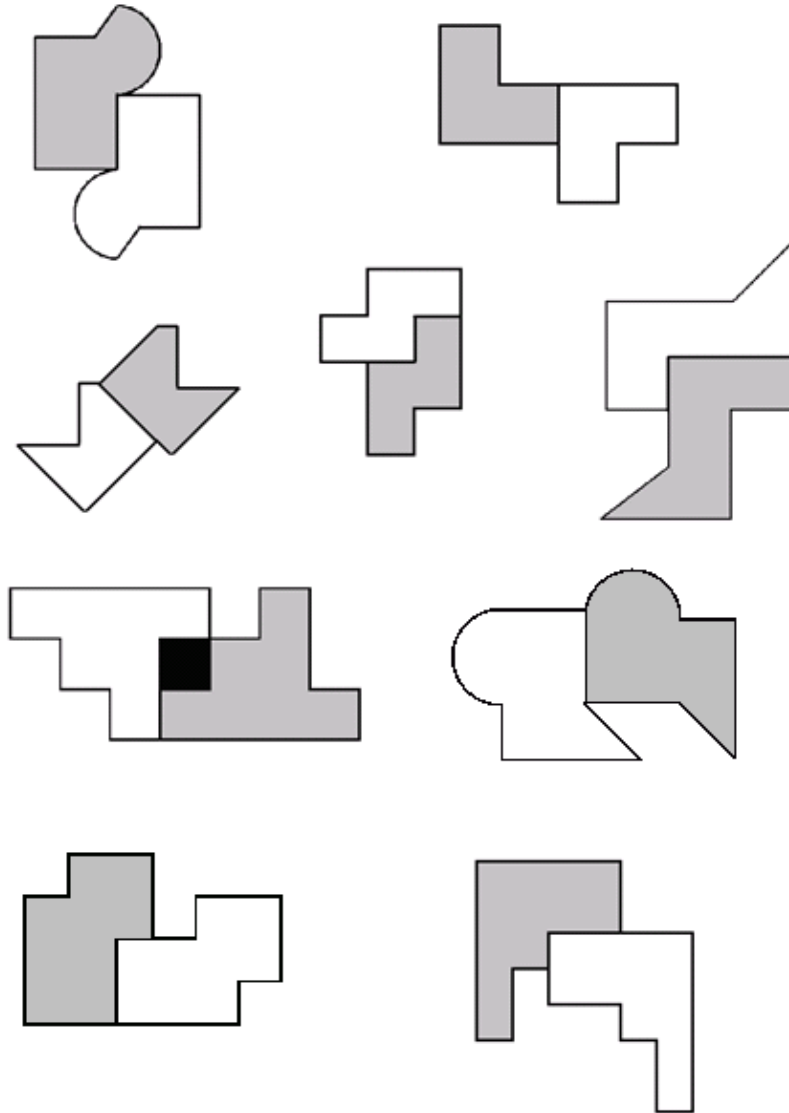


WITHOUT WORDS

Mathematical Puzzles to Confound and Delight



WW 5: SOLUTION



One of the goals in mathematics is to find a sense of structure in things when at first none might be apparent.

That each of these shapes is actually two congruent shapes pasted together is a surprise.

CHALLENGE: Any line through the center of a circle cuts the circle into two congruent parts. Is the same true for every line through the center of a square? Through the center of a rectangle? Through the center of an equilateral triangle? Through the center of a regular hexagon?