


PUZZLE PAGE

Meandoku

—DAVID NACIN

Fill in the cells so that each row, column, and three-by-three square cage contains each of the numbers

one through nine exactly once. A square indicates the mean of the numbers in the two adjacent cells is

five. A top-heavy trapezoid indicates the average is more than five, and a bottom-heavy one indicates the average is less than five. The answer follows this page. 

David Nacin is an associate professor at William Paterson University in New Jersey.

The puzzle grid is a 9x9 grid divided into nine 3x3 cages. The constraints are as follows:

- Row 1:** Top-heavy trapezoid between (1,2) and (1,3); bottom-heavy trapezoid between (1,3) and (1,4); square between (1,4) and (1,5).
- Row 2:** Bottom-heavy trapezoid between (2,1) and (2,2); top-heavy trapezoid between (2,2) and (2,3); top-heavy trapezoid between (2,3) and (2,4); top-heavy trapezoid between (2,4) and (2,5).
- Row 3:** Bottom-heavy trapezoid between (3,1) and (3,2); top-heavy trapezoid between (3,2) and (3,3); top-heavy trapezoid between (3,3) and (3,4); top-heavy trapezoid between (3,4) and (3,5).
- Row 4:** Bottom-heavy trapezoid between (4,1) and (4,2); top-heavy trapezoid between (4,2) and (4,3); top-heavy trapezoid between (4,3) and (4,4); top-heavy trapezoid between (4,4) and (4,5).
- Row 5:** Bottom-heavy trapezoid between (5,1) and (5,2); top-heavy trapezoid between (5,2) and (5,3); top-heavy trapezoid between (5,3) and (5,4); top-heavy trapezoid between (5,4) and (5,5).
- Row 6:** Bottom-heavy trapezoid between (6,1) and (6,2); top-heavy trapezoid between (6,2) and (6,3); top-heavy trapezoid between (6,3) and (6,4); top-heavy trapezoid between (6,4) and (6,5).
- Row 7:** Bottom-heavy trapezoid between (7,1) and (7,2); top-heavy trapezoid between (7,2) and (7,3); top-heavy trapezoid between (7,3) and (7,4); top-heavy trapezoid between (7,4) and (7,5).
- Row 8:** Bottom-heavy trapezoid between (8,1) and (8,2); top-heavy trapezoid between (8,2) and (8,3); top-heavy trapezoid between (8,3) and (8,4); top-heavy trapezoid between (8,4) and (8,5).
- Row 9:** Bottom-heavy trapezoid between (9,1) and (9,2); top-heavy trapezoid between (9,2) and (9,3); top-heavy trapezoid between (9,3) and (9,4); top-heavy trapezoid between (9,4) and (9,5).

754298361
136457892
829361457
591723648
482916735
367845219
948132576
215674983
673589124