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Lanstrum, Michael W.

Revisiting equal sums.

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Summary: This article revisits the Equal Sums problem and considers all possible solutions. Depending on the row/column total, various solutions are possible. Sometimes the value of E is unique, sometimes E is not, and in other cases a value of E is not possible. Looking at all possible row/column totals, surprisingly there is only one value that E cannot represent.

Classification: A20 F60 H20

Keywords: number puzzles; number theory; problem-solving; simultaneous linear equations; Diophantine equations; arithmetic; elementary algebra; recreational mathematics