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Multiple ways to persevere: Liar's Bingo.

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Summary: Some readers may already be familiar with the mathematical task of solving Liar's Bingo. In this article, the authors will share the different ways Liar's Bingo has provided both the authors and their students the opportunity to persevere on multiple levels as they and students try to explain the different mathematical patterns that emerge in the strips. The authors will share some extensions to Liar's Bingo that readers can use in their classrooms and some of the observed patterns and some sample explanations. Spoiler alert: the authors have not found explanations for all the observed patterns. (Yet!).

Classification: A20 D50

Keywords: open-ended problems; non-routine problems; discovery learning; perseverance; conjecturing; monitoring; evaluating; patterning; student activities; mathematical reasoning; coding; colour patterns; colour changing problem solving; problem posing; mathematical magic