

Review of: "Statistical Implicative Analysis of Students' Algebra Performance"

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Potential competing interests: No potential competing interests to declare.

This paper is well-crafted and addresses a highly relevant topic. However, I recommend a few improvements to enhance its clarity and impact.

First, it would be beneficial to categorize and present the results according to the students' school years. This distinction could yield more nuanced insights and strengthen the conclusions.

Second, considering the focus on algebra among middle school students, integrating visual aids into the problem statements might improve comprehension. An analysis that differentiates the efficacy of visual aids versus non-visual methods in understanding algebraic concepts could be particularly illuminating.

Additionally, a detailed examination of the incorrect answers provided by students might offer deeper insights into their cognitive processes and decision-making criteria. Such an analysis could help in identifying common misconceptions and areas needing targeted intervention.

Lastly, the legibility of Figures 2 and 3 requires improvement. Enhancing the clarity of these figures would facilitate better understanding and engagement with the presented data.