

Review of: "Influence of Motivation on Pre-service Primary Teachers' Performance in Mathematics"

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Potential competing interests: No potential competing interests to declare.

1. In the Abstract, it states that participants were “randomly selected.” What specific sampling strategy was used?
2. Many assertions in the first few paragraphs are not supported with citations. Citations need to be added to support each factual claim.
3. The three paragraphs on the relationship between motivation and academic performance should be rearranged into three paragraphs that address (a) motivation in general, (b) intrinsic motivation, and (c) extrinsic motivation.
4. What are “affective-motivational variables” in the second-to-last paragraph above the Statement of the Problem?
5. In the Statement of the Problem, it states that there is failure in mathematics with preservice teachers and that several factors are responsible for this trend. This information should be discussed in the Literature Review.
6. In the Methodology section, there should be:
 - a. A description of participants based on the demographic measure
 - b. A description of how performance was measured.
 - c. Example items for intrinsic and extrinsic motivation. Were these separate subscales? Coefficient alphas need to be reported for each scale. Also, how many items were on each scale?
 - d. What were the points on the Likert scale?
7. The Methodology states that the Results will contain descriptive statistics, yet no means or standard deviations for scales are reported.
8. The example in the Discussion of the Results at the beginning regarding the family environment does not address a correlational relationship between motivation and performance.
9. How does “playing and exploring” relate to college preservice teachers?
10. The literature cited regarding extrinsic motivation states that its correlation with performance is slightly weaker than that for intrinsic motivation; however, they are of similar magnitude in this study. This fact should be addressed.
11. Three lines above the Conclusion, intrinsic motivation is mentioned in the section addressing extrinsic motivation.
12. What “academic activities” should teachers use to increase motivation?
13. How can teachers “conduct activities” that increase enthusiasm?