

# 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.

In general, the article addresses an interesting and relevant topic for educators, researchers and readers. It is clearly written and well organized. It presents a literature review that supports the study with a coherent methodology and a set of well-identified conclusions. However, there are some aspects that the author should take into consideration in order to clarify, improve and strengthen the manuscript.

**Title:** I suggest a revision of the title in line with the problem. Can we talk about *influence*? Or perhaps "Relationships/connections between motivation and the mathematical performance of pre-service primary teachers"?

**Abstract:** At the beginning of the abstract, the author should introduce a paragraph illustrating the relevance of the topic under study clarifying what motivate this study. You can use some of the main ideas of the next item.

**Introduction:** This item is well written and states what the study is about, however should be split into two. One is the *Introduction* and the other is the *Literature review/Theoretical framework*.

The *Introduction* it should focus briefly on the relevance of the study and should end with a statement of the problem and the research questions. So, the two items after the introduction (the problem and questions) should disappear and be included in the introduction. The discussion on motivation, for instance, should be moved to the new item which will be the Literature review/theoretical framework. This new item should be reinforced with different authors and empirical studies. It is important added some ideas about teacher education and in particular why is important study pre-service teachers. It was important to discuss and clarify what it said in literature and what are the author interpretation about "performance in mathematics".

**Methodology:** The methodology is adequate however needs clarification on some aspects.

**Participants-** It is said "The sample, purposively selected". It is necessary to say what criteria were used to obtain the sample. The participants are 70 primary-preservice teachers from a college. It is necessary to clarify who these participants were. For instance, were they all from the same year of the course?

**The questionnaire-** There is a lack of information on how the questionnaire was organized and what questions were asked; did the questionnaire had questions related to mathematical knowledge or mathematical content or teaching and learning strategies? What kind of questions related motivation to performance? The table 1 shows Motivation and Performance. In this sense, it would be useful and necessary to attach it. Has the questionnaire been validated? The

questionnaire was applied at the beginning, middle or end of the year/semester?

Results/discussion: These items present the findings and it is made a discussion of the findings obtained with the results of other studies, analysing if there were consistency or not.

Conclusion: In general, the conclusions are well achieved.

It would be interesting to end the manuscript by identifying the contribution of this study to initial teacher training and to indicate what the next step to follow the research or whether all the answers have been obtained with this study.

Congratulations and best wishes.