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**6th grade students' awareness of why they need mathematical justification and their levels of mathematical justification.**

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Summary: We suggest implications for teaching mathematical justification with an analysis of 6th grade students' awareness of why they needed mathematical justification and their levels of mathematics justification in algebra and geometry and also how their levels of mathematical justification were related to mathematical achievement. 96% of students thought mathematical justification was needed, the reasons were limited to checking their solutions and answers. The level of mathematical justification in algebra was higher than in geometry. Students who had a higher mathematics achievement had higher levels of mathematical justification. In conclusion, we searched the possibility of teaching mathematical justification to students, and we found some practical methods for teaching.

*Classification:* E53

*Keywords:* mathematical justification; levels of mathematical justification