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**Students' misconceptions in mathematics: analysis of remedies and what research says.**

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Summary: It is common knowledge that students of all grade levels have misconceptions regarding various concepts in mathematics. This article is focused on analyzing this issue due to its importance in the teaching and learning of mathematics. Misconceptions from two areas of mathematics are presented; these include operations with fractions (arithmetic) and addition of exponents (algebra). In each area, the explanation of the misconception, steps that teachers can take to address the problem, and highlights of previous research relating to the misconception are presented.

*Classification:* D73 F43 F53

*Keywords:* student errors; misconceptions; learning problems; misunderstandings; misinterpretations; incorrect meanings; subtraction of fractions; arithmetic; addition of powers; addition of exponents; research; graphic organizers; concept maps