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Suzhou grade 7 and 8 students' mathematics comprehension: Current state and error analysis.

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Summary: This study investigated 76 Suzhou grade 7 and grade 8 students' mathematics comprehension level, and analysed their difficulties in solving mathematics comprehension problems based on the framework of Newman error analysis. In general, the grade 7 and grade 8 students had average mathematics comprehension ability. These students' difficulties in solving mathematics comprehension problems can be classified into four categories: difficulties in understanding mathematics language, difficulties in selecting appropriate problem solving strategies, difficulties in mathematics operation, and difficulties in mathematics communication. Several pertinent suggestions on how to develop middle school students' mathematics comprehension ability are proposed at the end of the paper.

Classification: D73 D63 C63

Keywords: research; lower secondary; understanding; student errors; mathematical ability; educational diagnosis; error identification; problem solving; skills