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Logical analysis of ratio inference by children.

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Summary: In this study, we applied propositional and predicate logic for mathematical explication of the processes of inference by children. This facilitated extraction and comparison of children-specific inference processes, which are difficult to derive from a child's protocol itself, and elucidation of the structure of children's ratio-related conceptual and procedural knowledge.

Classification: K50 E30

Keywords: ratio; propositional logic; predicate logic

<http://www.jams.or.jp/scm/abstract/e-2015/abst2015-20.pdf> <http://www.jams.or.jp/scm/contents/e-2015-2/2015-20.pdf>