LOGICAL ANALYSIS OF RATIO INFERENCE BY CHILDREN

TAKESHI SAKAI, TADASHI TAKAHASHI

Received January 30, 2015

ABSTRACT. 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.