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**Lengnink, Katja; Leufer, Nikola**

**Perspectives on mathematical practice from an educational point of view.**

Löwe, Benedikt (ed.) et al., PhiMSAMP. Philosophy of Mathematics: Sociological aspects and mathematical practice. Including selected papers of the 3rd PhiMSAMP conference 'Is mathematics special?', Vienna, Austria, 2008. London: College Publications (ISBN 978-1-904987-95-6/pbk). Texts in Philosophy 11, 209-233 (2010).

The authors give a rough idea of the variety of research questions and approaches of German mathematics education. For example, they analyze 13 high-performing fourth graders' ideas concerning negative numerals, focusing on the differences and semantic variances between intuitive and mathematically intended concepts. The children's journal entries give examples of how the thinking processes of learners can contribute to clarifying the philosophical problems arising with the extension of the number range. The journal entries are presented in the original German with English translations. *Steven C. Althoen (Holly)*

*Classification:* D22 F22 F42 C32

*Keywords:* research in mathematics education; negative numbers; extension of the number domain; thinking processes; primary school children