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Kindergarten children's reasoning about basic geometric shapes.

Ubuz, Behiye (ed.) et al., CERME 8. Proceedings of the eigth congress of the European Society of Research in Mathematics Education, Antalya, Turkey, February 6–10, 2013. Ankara: Middle East Technical University (ISBN 978-975-429-315-9). 2118-2127 (2013).

Summary: We attempted to investigate the criteria used by preschool children in distinguishing basic geometric shapes, namely circles, rhombus, squares, triangles and rectangles. Besides the detection of the syncretic level as it was described by *D. H. Clements* et al. [J. Res. Math. Educ. 30, No. 2, 192–212 (1999; ME 1999e.03263)], analysis of our observations revealed seeds of relational thinking in very early age, which via suitable collaborative tasks designed by teachers may advance preschoolers geometric thinking.

Classification: G21
Keywords: preschool children; geometric thinking