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Children's conceptual knowledge of triangles manifested in their drawings.

Liljedahl, Peter (ed.) et al., Proceedings of the 38th conference of the International Group for the Psychology of Mathematics Education "Mathematics education at the edge", PME 38 held jointly with the 36th conference of PME-NA, Vancouver, Canada, July 15–20, 2014, Vol. 4. [s. 1.]: International Group for the Psychology of Mathematics Education (ISBN 978-0-86491-360-9/set; 978-0-86491-364-7/v.4). 153-160 (2014).

Summary: When asked to draw different kinds of triangles, children reveal many creative ways to express variety. In this paper, the drawings of 81 children in the age between 4 and 6 will be examined and illustrated what kind of understanding of the concept "triangle" precedes the drawings. Therefore, different categories of the children's drawings were generated and also compared to their explanations of a triangle, which sometimes might not be in agreement with their drawings.

Classification: G21 C31

Keywords: triangles; children's drawings; conceptual understanding