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Measuring areas: from polygons to land maps.

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Summary: The author explains how to measure area using both simple and complicated measurement methods. Elementary-school children obtain area by counting triangles; junior-high-school students use Cartesian coordinates; and high-school students study Heron's formula. In this article, additional methods such as the trapezoid formula and Amsler's linear planimeter are presented.

Classification: M55 G95 I55

Keywords: measurement of area; polygon; triangulation survey; Heron's formula; trapezoid formula; planimeter; Jacob Amsler; polar planimeter; linear planimeter

<http://www.ijpam.eu/contents/2012-81-1/9/index.html>