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Equal arcs, triangles, and probability.

Math. Teach. (Reston) 96, No. 9, 618-621 (2003).

Summary: The article presents a way that gives students experience with probability applied to geometry. It could be used in a professional development setting for high school teachers. It uses a hands-on approach to address several content areas including geometry, probability, combinatorics, and algebra. Participants use deductive reasoning to analyze the various approaches to the problem and compare theoretical and experimental probabilities.

Classification: D43 G43 K53

Keywords: probability; geometry; circles; inscribed triangles; polygons; diameters; right triangles; Thales' theorem; combinations; exploratory learning; discovery learning; conjectures; teaching methods; teaching units; experience reports