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Number, Shape, and Symmetry: An Introduction to Number Theory, Geometry, and Group Theory (Hardback)

By Diane L. Herrmann, Paul J. Sally

Taylor Francis Inc, United States, 2012. Hardback. Book Condition: New. New.. 236 x 192 mm. Language: English . Brand New Book. Through a careful treatment of number theory and geometry, Number, Shape, Symmetry: An Introduction to Number Theory, Geometry, and Group Theory helps readers understand serious mathematical ideas and proofs. Classroom-tested, the book draws on the authors successful work with undergraduate students at the University of Chicago, seventh to tenth grade mathematically talented students in the University of Chicago s Young Scholars Program, and elementary public school teachers in the Seminars for Endorsement in Science and Mathematics Education (SESAME). The first half of the book focuses on number theory, beginning with the rules of arithmetic (axioms for the integers). The authors then present all the basic ideas and applications of divisibility, primes, and modular arithmetic. They also introduce the abstract notion of a group and include numerous examples. The final topics on number theory consist of rational numbers, real numbers, and ideas about infinity. Moving on to geometry, the text covers polygons and polyhedra, including the construction of regular polygons and regular polyhedra. It studies tessellation by looking at patterns in the plane, especially those made by regular polygons or...



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