Navigating Through Problem Solving and Reasoning in Grades 6-8 (Navigations)

By: Valerie A. Debellis, Susan N. Friel, Fran Arbaugh, Edward S. Mooney, David K. Pugalee, Tad Watanabe, Margaret S. Smith, Peggy A. House

Description:

In middle school, students' reasoning about problems no longer routinely ends in solutions. Students can consider whether their solutions make sense or lead to solutions for related problems. This book presents investigations that allow students to reason about factors, area formulas, similar figures, data in a set, and growing patterns. An investigation of the Pythagorean theorem introduces proof in a developmentally appropriate way. Included is a CD-ROM with applets for students' use, ready-to-print activity sheets, and professional development resources for teachers.