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Mathematical reasoning for elementary teachers. 6th ed.

Boston, MA: Addison-Wesley/Pearson (ISBN 978-0-321-69312-9/hbk). xxv, 852 p., appendix 66 p. (2012).

From the Preface: “This text is for use in mathematics content courses for prospective elementary and middle school teachers. We assume that the students enrolled in these courses have completed two years of high school algebra and one year of high school geometry The principal goals of this text are to impart mathematical reasoning skills, a deep conceptual understanding, and a positive attitude to those who aspire to be elementary or middle school teachers The text contains ample material for either two or three semester-length courses.” The text has fourteen chapters and four appendices: Thinking critically; Sets and whole numbers; Numeration and computation; Number theory; Integers; Fractions and rational Numbers; Decimals, real numbers, and proportional thinking; Algebraic reasoning, graphing, and connections with geometry; Geometric figures; Measurement: length, area, and volume; Transformations, symmetries, and tilings; Congruence, constructions, and similarity; Statistics: the interpretation of data; Probability; Appendix A: Manipulatives in the mathematics classroom; Appendix B: Getting the most out of your calculator; Appendix C: A brief guide to Geometer’s Sketchpad; Appendix D: Resources

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Classification: B50 E50 F10 G10 K40 K50 U20