

Chapter 1: Patterns of Growth: Sequences

Chapter Overview Chart

*SUGGESTED TIMING Functions and Relations: 17.5 h Functions: 17.5 h				
Section	Timing (min)		Materials/ Technology	Expectations
	Functions and Relations	Functions		
1.1 Exploring Patterns and Sequences, page 16	75	75	coins SC GSP	FA1.01 FA1.02 FA1.04
1.2 Technology: TI-83 Plus Calculator: Generating the Terms of a Sequence, page 26	40	40	GC	FA1.01
1.3U Sequences and Recursive Formulas, page 27	75	NA	GC SS Reference material on Fibonacci and auto depreciation	FA1.01 FA1.02 OC3.01 OC3.02 OC3.03 OC3.04
1.4 Technology: TI-83 Plus Calculator: Graphing Sequences, page 36	40	40	GC	FA1.01 OC3.05
1.5 Exploration: Investigating Ways of Cutting “Vegetables,” page 39	30	30	scissors and paper	FA1.01
1.6 Arithmetic Sequences, page 41	75	75		FA1.03 FA1.04 FA2.04
1.7 Geometric Sequences, page 51	75	75	GP GC	FA1.01 FA1.02 FA1.03 FA1.04
1.8 Compound Interest: Amount and Present Value, page 61	150	150	SS GC	FA2.01 FA2.02 FA2.03 FA2.05 OC3.01 OC3.02 OC3.03 OC3.04
1.9 Rational Exponents, page 73	75	75	SC	OC1.08
1.10 <i>Skill Builder</i> : Simplifying Expressions Involving Exponents, page 83	115	75		OC1.08
1.11 Solving Exponential Equations, page 88	150	150	GC GP	FA2.02 FA2.03 OC1.09
BLM = Blackline Masters CBR/L = Calculator-Based Ranger/Laboratory GSP = <i>The Geometer's Sketchpad</i> * Suggested Timing includes time for preview, additional activities, review and assessment.				
GP = Graph Paper GS = Graphing Software GC = Graphing Calculator SC = Scientific Calculator SS = Spreadsheet Software				
Check Your Understanding: Answers, p. 1-49 The Chapter Problem Questions and Answers, p. 1-52 Challenge 1 – Solution Guide and Rubric, p. 1-57 Challenge 2 – Solution Guide and Rubric, p. 1-59 Chapter 1 Test and Solutions, p. 1-62				