shortest path, Warshall's algorithm, finding the best tree, and the Traveling Salesman problem.		
Coloring maps and Graphs: Coloring regions and graphs with two colors, coloring graphs with many colors, and the Four Color Theorem.	5	Prove statements about the coloring of maps.
Computer topics, complexity and cryptography: Computation, tree traversal algorithms, analysis of algorithms, matrices including relations and databases, languages including algebraic structures, finite state machines, formal languages, Huffman Codes, computer logic including Boolean algebra structure, verifying a password without learning it, and public key cryptography.	2.5	Use finite state machines to model computer operations.