Delightful Puzzles

Easy	Moderate	Difficult
Chameleons	Four Ships	Red Card
Pebble Piles	Cap Colors	My Cap Color
Rope Escape	f(f(x)) = -x	Twelve Coins
Cake Cutting	Card Shuffling	Grid Infection
Fox in a Hole	Average Salary	Find the Angle
Cube Cutting	Forks in a Road	Five Card Trick
Ant Collisions	Duplicate Integer	Sum and Product
Ant in a Room	Bigger or Smaller	Fast Bit Counting
Coins in a Row	Measuring Weights	Empty the Bucket
Cube Problems	Working Computer	Balanced Coloring
Truchet Tilings	Tiling With Calissons	Horses on Auction
Treasure Island	Loop in a Linked List	Polya's Urn Process
Six Colored Balls	Perplexing Polynomial	Flipping Bits in a Matrix
Josephus Problem	Poisoned Wine Barrels	Rectangle with Integral Side
Forty-Five Minutes	Two Eggs and a Building	100 Prisoners and 100 Boxes
Thousand Prisoners	Number Guessing Game	Firing Squad Synchronization
Non-Transitive Dice	Cutting a Cake with Icing	Tumblers on a Rotating Table
Blind Man and Cards	Number Guessing Game II	Geometry With Only a Compass
Breaking a Chocolate	Cube Cutting with Stacking	Dijkstra's Self-Stabilization Protocol
Three Boxes and a Ruby	100 Prisoners and a Light Bulb	Three NOT Gates from Two NOT Gates
Absent-Minded Professor	What's the Number on My Hat?	
Color of My Probabilistic Hat	Tiling a Chessboard with Dominoes	
Kirkman's Schoolgirl Problem	Fuel Dumps on a Circular Racetrack	
Three Boxes with Two Balls Each	Four Points, Two Distinct Distances	
Divide 100 Marbles into Two Piles	Tiling a Chessboard with Trominoes	
Three Heavy and Three Light Balls		
Tossing with One-Third Probability		

Links to Puzzle Sites

The Puzzle Toad at CMU has challenging puzzles. William Wu's Puzzles Page at Berkeley has myriad puzzles with a discussion board. Cut the Knot has dozens of high quality articles on mathematics, puzzles and games. Puzzles by Erich Friedman has cute puzzles; he also maintains Math Magic, Erich's Packing Center and Ambigrams. Archives of Ed Pegg Jr's Math Games in MAA make interesting reading. Age of Puzzles is a nicely done website with classic puzzles, diagrams and references. Sam Lloyd website: A few of his puzzles have tastefully been compiled at this website. SOMA cube has dozens of SOMA cube configurations. List of books by Martin Gardner. Select puzzles for high school students: SNAP Math Fair. Another small collection. A nice collection of problems at mathproblems.info. Another collection of puzzles. Yet another collection by Tanya Khovanova. Some problems by Mihai Pătraşcu. Several ingenious puzzles at MathOveflow.Net. Prisoner and Hat Puzzles. Surprises! Surprises! Surprises!. MSRI Archives (puzzles in each newsletter). Nice C Puzzles by Gowri Kumar. Interesting articles on various problems.