Three Lines

Draw three lines (not necessarily straight) so that each circle is connected to another circle with the same letter (that is, A to A, B to B, and C to shining C). The lines may not intersect one another, and they may not extend beyond the rectangle.

This brainteaser was written by Patrick Vennebush.

Four Straight Lines

Make a square with 9 dots as shown. Cross all the dots with 4 straight lines without taking your pencil off the paper.

Puzzle provided by Kordemsky: The Moscow Puzzles (Dover)
Battleship

The $8 \times 8$ grid at left represents an ocean with a hidden fleet of ships. Ten ships are hidden within the grid — 1 battleship, 2 cruisers, 3 destroyers, and 4 submarines.

Each ship may be oriented horizontally or vertically within the grid such that no ship touches another ship, not even at a corner. The numbers along the right and bottom of the grid show how many squares in each row and column are occupied by ship segments. As a start, one square in the grid shows the location of one end of a ship, and the X indicates a square that contains only water (no ship).

Can you determine the location of all 10 ships?