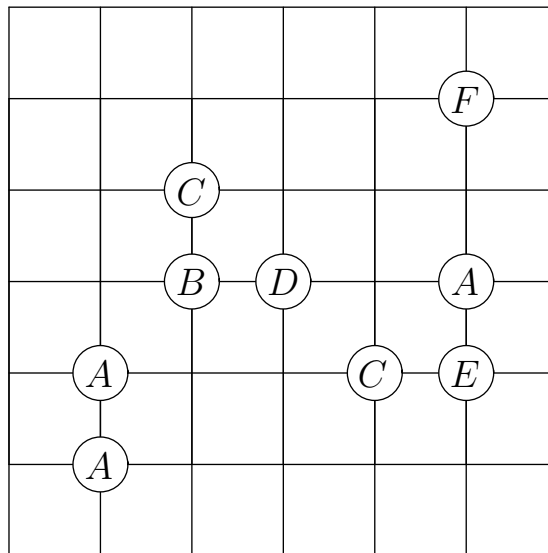


Fill-In the Grid All-Day Sprint Math Meet 2006

The Rules

- Each box in the grid below must be filled-in with one of the numbers 1, 2, 3, 4, 5 or 6.
- No number appears more than once in any row or column.
- The letters A , B , C , D , E and F which appear in the circles represent numbers, but you must use the clues below to determine what numbers they are.
- The numbers in the circles must be the *product* of the contents of the four boxes that touch the circle. (In other words, if the number in the circle is 36, then the four numbers in the boxes around it multiply out to thirty-six. For instance, they could be 2, 2, 3 and 3 or 1, 4, 3 and 3.)

The Puzzle



The Clues

Use the following clues (and the fact that there is exactly one correct way to fill-in the grid subject to the rules above) to determine the values of the numbers A , B , C , D , E and F which represent the products of the entries in the boxes touching each circle above:

A = one of these numbers: 63, 131 or 216

B = Remainder when 712885 is divided by 219

$$C = 2B\sqrt{D}$$

D = The number of Senators in the US Congress divided by the length of a Presidential term.

E = one of these numbers: 60, 70 or 85

F = four score and a bakers dozen plus a few more