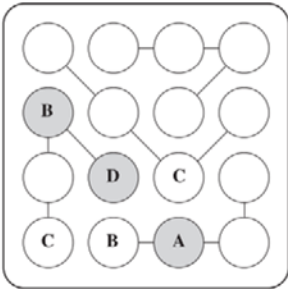


Logic Review

Practice Questions

1. The goal of a particular puzzle is to fill the circles in grid with the letters A, B, C, and D so that no letters are repeated in any row, column, or set of connected circles.

The three entries in the grey circles were given to start the puzzle. Jerome has already completed three entries shown in the white circles, but he has made an error.



Identify and explain the error Jerome made in his solution to the puzzle.

2. The goal of a two player game is to create a line of four adjacent rectangles using the same letter. To play, each player takes turns placing their first initial somewhere on a six-by-six grid. Margaret and Gerda have started playing this game, as shown on the grid below.

		Column					
		1	2	3	4	5	6
Row	1	G					
	2		G				
	3			G	G		
	4			M	M	G	
	5		M				
	6	M	M	G			

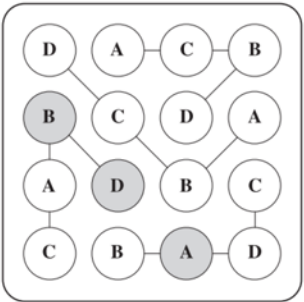
It is Margaret’s turn, and she determines that she can guarantee a win by placing the letter M in the rectangle at

Row: \_\_\_\_

Column: \_\_\_\_

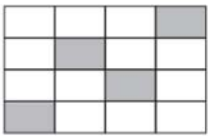
Notes

Incorrect entry: row 3, column 3

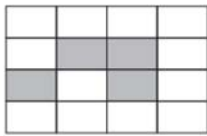


Row: 4  
Column: 2

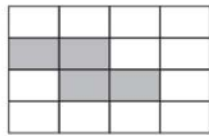
3. A pattern of pictures is shown below. In Step 2, each shaded square has stayed in the same place as in Step 1 **or** moved to a square horizontally, vertically, or diagonally adjacent to its location in Step 1. The shaded square undergoes the same movement in each subsequent step.



Step 1



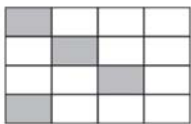
Step 2



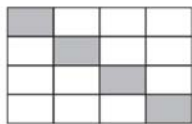
Step 3

Which of the following pictures is next in the pattern?

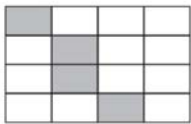
A.



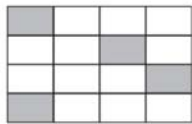
B.



C.

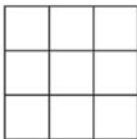


D.



A

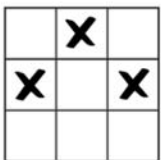
4. To solve a particular logic puzzle, an X must be placed in six of the squares in the grid shown below so that no three Xs line in a vertical, horizontal, or diagonal line.



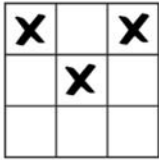
**XXXXXX**

Which of the following opening placements for the first three Xs could lead to a successful solution for this logic puzzle?

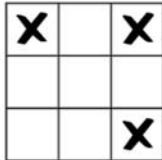
A.



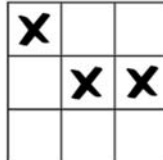
B.



C.



D.



A