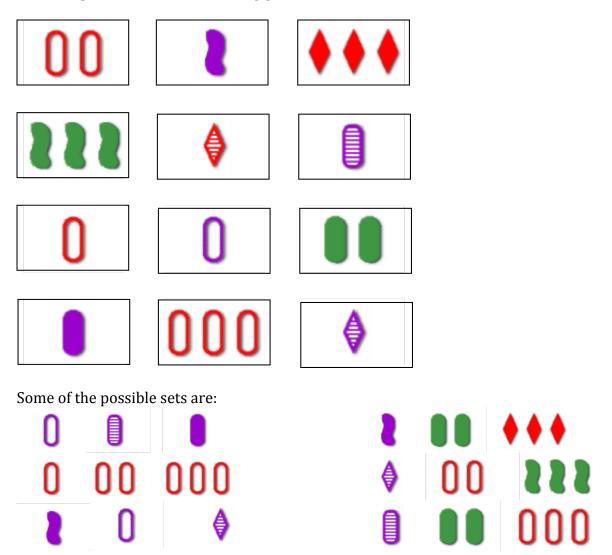# Exercise: The Game of Set

Consider the game of Set: http://en.wikipedia.org/wiki/Set_(game). The objective is to be the first to find a set of three cards in a 3x4 grid that satisfy all of the following conditions:

- They all have the same number, or they have three different numbers
- They all have the same symbol, or they have three different symbols.
- They all have the same shading, or they have three different shadings.
- They all have the same color, or they have three different colors.

For example, consider the following grid:

Some of the possible sets are:

Problem: Set up a Constraint Satisfaction Problem. Give a specification for variables, variable domains, and constraints.