



## Problem of the Week

### Problem D

### To Top It Off

Jen, John and Rob ordered two medium pizzas. Each of the medium pizzas is divided into 12 equal sized slices. Each slice can have at most 3 toppings and any two slices of the same pizza may have different toppings. The available toppings are pepperoni, green pepper, mushrooms, onion and pineapple.

Their pizzas were divided as follows:

- Jen ate  $\frac{1}{4}$  of all the slices. All of her slices had pepperoni as a topping, two of her slices had mushrooms and two had pineapple.
- John ate  $\frac{1}{3}$  of all the slices. All of his slices had mushrooms as a topping, four of his slices also had green pepper and onions.
- Rob ate all of the remaining slices. Four of his slices had only two toppings, onion and pineapple. His remaining slices each had exactly 3 toppings.

If  $\frac{1}{2}$  of the slices contained pepperoni,  $\frac{1}{4}$  of the slices contained pineapple and  $\frac{1}{6}$  of the slices had green pepper, determine the toppings on Rob's remaining slices.

