Problem of the Week
Problem A
Perfect Punch

Su is going to make punch for her friends. She wants to mix $3 \text{ L}$ of orange juice, $1 \text{ L}$ of pop, $\frac{1}{2} \text{ L}$ of grape juice, and $300 \text{ mL}$ of cranberry juice in a punch bowl.

(a) To avoid spilling, Su plans to use a punch bowl with a capacity of at least $200 \text{ mL}$ more than the liquid it holds. What is the smallest capacity that her punch bowl should have?

(b) Su has cups that can each hold $300 \text{ mL}$ of punch. How many of these cups can she fill with the punch she makes?