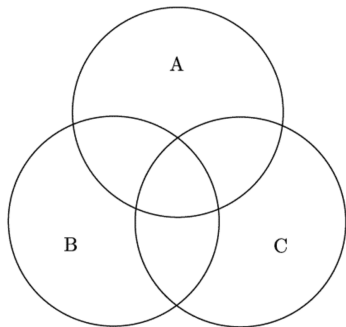


## A puzzler about Inclusion-Exclusion

The inclusion-exclusion formula is

$$n(A \cup B) = n(A) + n(B) - n(A \cap B).$$

What would it become if we had *three* sets?



I.e.,  $n(A \cup B \cup C) = \dots?$