stead of counting the number of "good" outcomes, one can count

If $X \supset Y$, then $|X \setminus Y| = |X| - |Y|$.

Instead of counting the number of "good" outcomes, one can count the number of "bad" ones and subtract it from the total number of outcomes.

The set difference: $X \setminus Y = \{x \in X \mid x \notin Y\}.$