
5. Solution: D

Let $N(C)$ denote the number of policyholders in classification C . Then

$$\begin{aligned} N(\text{Young} \cap \text{Female} \cap \text{Single}) &= N(\text{Young} \cap \text{Female}) - N(\text{Young} \cap \text{Female} \cap \text{Married}) \\ &= N(\text{Young}) - N(\text{Young} \cap \text{Male}) - [N(\text{Young} \cap \text{Married}) - N(\text{Young} \cap \text{Married} \cap \\ &\text{Male})] = 3000 - 1320 - (1400 - 600) = 880. \end{aligned}$$
