

1 Using properties of probability laws:

a. $Pr(C \cup P) = Pr((C' \cap P')') = 40\%$

b. $Pr(C \cap P) = Pr(C) + Pr(P) - Pr(C \cup P) = 20\% + 30\% - 40\% = 10\%$

2 Probability calculation: