

## **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:**