

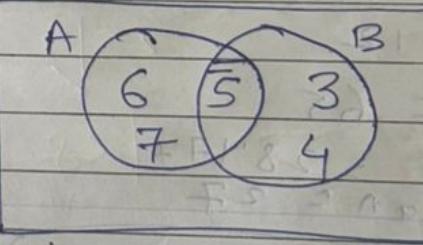
Q.17

Probability

(a) $P(A) = P(\text{more than 4 day})$
= $P(5) + P(6) + P(7)$
= $0.41 + 0.20 + 0.07$
 $P(A) = 0.68$

(b) $P(B) = P(\text{less than 6 days})$
= $P(3) + P(4) + P(5)$
= $0.08 + 0.24 + 0.41$
 $P(B) = 0.73$

(c) $P(A^c) = 1 - P(A)$
= $1 - 0.68$
 $P(A^c) = 0.32$

(d) $P(A \cap B) =$ 

$$P(A \cap B) = P(5) = 0.41$$

(e) $P(A \cup B) = P(A) + P(B) - P(A \cap B)$
= $0.68 + 0.73 - 0.41$

$P(A \cup B) = 1 \rightarrow \text{entire Sample Space}$