

Probability (Prepared by Jincy A.J)

Questions and Answers

1. Given that E and F are events, such that $P(E) = 0.6$, $P(F) = 0.3$ and $P(E \cap F) = 0.2$, find $P(E|F)$ and $P(F|E)$.

Solution:

Given $P(E) = 0.6$, $P(F) = 0.3$ and $P(E \cap F) = 0.2$

We know that by the definition of conditional probability,

$$P(A|B) = \frac{P(A \cap B)}{P(B)}$$

By substituting the values we get

$$\Rightarrow P(E|F) = \frac{P(E \cap F)}{P(F)} = \frac{0.2}{0.3} = \frac{2}{3}$$

$$\text{And } \Rightarrow P(F|E) = \frac{P(E \cap F)}{P(E)} = \frac{0.2}{0.6} = \frac{2}{6} = \frac{1}{3}$$

2. Compute $P(A|B)$, if $P(B) = 0.5$ and $P(A \cap B) = 0.32$

Solution:

Given: $P(B) = 0.5$ and $P(A \cap B) = 0.32$

We know that by definition of conditional probability,

$$P(A|B) = \frac{P(A \cap B)}{P(B)}$$

Now by substituting the values we get

$$\Rightarrow P(A|B) = \frac{0.32}{0.5} = \frac{32}{50} = \frac{16}{25}$$

3. If $P(A) = 0.8$, $P(B) = 0.5$ and $P(B|A) = 0.4$, find
(i) $P(A \cap B)$

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CO Houle



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