

### Question 2:

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

### Solution:

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

$$\begin{aligned}\Rightarrow P\left(\frac{A}{B}\right) &= \frac{P(A \cap B)}{P(B)} \\ &= \frac{0.32}{0.5} \\ &= \frac{16}{25}\end{aligned}$$