

# Assignment Probability

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probability

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## 1 Problem

1. Q:12,13.2,1

### 1.1 Problem

Q2: If  $P(A) = \frac{3}{5}$  and  $P(B) = \frac{1}{5}$  find  $P(A \cap B)$  if A and B are independent events ?

solution:

Given,

$$\begin{aligned}P(A) &= \frac{3}{5} \text{ and } P(B) = \frac{1}{5} \\P(AB) &= P(A) * P(B) \\P(AB) &= \frac{3}{5} * \frac{1}{5} \\P(AB) &= \frac{3}{25}\end{aligned}$$