# Assignment Probability

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## 1 Problem

1. Q:12,13.2,1

13.2.1 **If $\Pr\{A\}=\frac{3}{5}$ and $\Pr\{B\}=\frac{1}{5}$ find $\Pr$(A∩B) if A and B are independent events? solution:**

$$P(A) = \frac{3}{5}, \tag{13.2.1.1}$$

$$P(B) = \frac{1}{5} \tag{13.2.1.2}$$

$$P(AB) = P(A) * P(B) \tag{13.2.1.3}$$

$$P(AB) = \frac{3}{5} * \frac{1}{5} \tag{13.2.1.4}$$

$$P(AB) = \frac{3}{25} \tag{13.2.1.5}$$