

2.66

(a)

32%*

(b)

87%*

(c)

13%*

☆

(d)

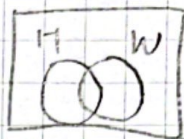
37%*

2.82

$$(a) \quad 0.2 + 0.28 - 0.15 = 0.33 \text{ 次}$$

$$(b) \quad \frac{0.15}{0.2} = 0.75 \text{ 次}$$

$$(c) \quad \frac{0.05}{0.72} = 0.0694 \text{ 次}$$



2.90

$$(a) \quad P(B|A) = \frac{P(A \cap B)}{P(A)} \Rightarrow P(A \cap B) = 0.3 \times 0.75 = 0.225$$

$$P(C|A \cap B) = \frac{P(C \cap A \cap B)}{P(A \cap B)} \Rightarrow P(C \cap A \cap B) = 0.225 \times 0.2 = 0.045$$

(b)

$$P(B' \cap C) = P(A' \cap B' \cap C) + P(A \cap B' \cap C)$$

$$= P(C|A' \cap B') \times P(A' \cap B') + P(C|A \cap B') \times P(A \cap B')$$

$$P(A') = 0.7$$

$$P(B|A') = \frac{P(B \cap A')}{P(A')}, \quad P(B \cap A') = 0.7 \times 0.2 = 0.14$$

$$P(B' \cap A') = 0.7 - 0.14 = 0.56$$

$$\begin{aligned} P(A \cap B) &= 0.75 \times 0.3 \\ &= 0.225 \\ P(A \cap B') &= 0.3 - 0.225 \\ &= 0.075 \end{aligned}$$

$$= 0.9 \times 0.56 + 0.8 \times 0.075 = 0.564$$

(c)

$$P(A' \cap B \cap C) = P(C|A' \cap B) \times P(A' \cap B) = 0.13 \times 0.14 = 0.021$$

$$P(B \cap C) = 0.021 + 0.045 = 0.066$$

$$P(C) = P(B \cap C) + P(B' \cap C) = 0.066 + 0.564 = 0.63$$

(d)

$$P(A|C \cap B') = \frac{P(A \cap B' \cap C)}{P(B' \cap C)} = \frac{0.66}{0.564} = 0.1064$$

2,100

$$P = \frac{5}{7+7+5} = 0.2632$$

2,126

$$(a) P = \frac{13}{23} = 0.565$$

$$(b) P = \frac{2}{40+13+6} = 0.034$$