

1.4 Conditional Probability

1.4.1 See Figure 1.55.

$$(a) \quad P(A \mid B) = \frac{P(A \cap B)}{P(B)} = \frac{0.02+0.05+0.01}{0.02+0.05+0.04+0.11+0.08+0.06+0.13} = 0.1739$$

$$(b) \quad P(C \mid A) = \frac{P(A \cap C)}{P(A)} = \frac{0.02+0.05+0.08+0.04}{0.02+0.05+0.08+0.04+0.018+0.07+0.05} = 0.59375$$

$$(c) \quad P(B \mid A \cap B) = \frac{P(B \cap (A \cap B))}{P(A \cap B)} = \frac{P(A \cap B)}{P(A \cap B)} = 1$$

$$(d) \quad P(B \mid A \cup B) = \frac{P(B \cap (A \cup B))}{P(A \cup B)} = \frac{P(B)}{P(A \cup B)} = \frac{0.46}{0.46+0.52+0.08} = 0.657$$

$$(e) \quad P(A \mid A \cup B \cup C) = \frac{P(A \cap (A \cup B \cup C))}{P(A \cup B \cup C)} = \frac{P(A)}{P(A \cup B \cup C)} = \frac{0.32}{1+0.04+0.05+0.03} = 0.3636$$

$$(f) \quad P(A \cap B \mid A \cup B) = \frac{P((A \cap B) \cap (A \cup B))}{P(A \cup B)} = \frac{P(A \cap B)}{P(A \cup B)} = \frac{0.08}{0.7} = 0.1143$$

1.4.2 $A = \{1, 2, 3, 5\}$ and $P(A) = \frac{4}{6} = \frac{2}{3}$

$$P(5 \mid A) = \frac{P(5 \cap A)}{P(A)} = \frac{P(5)}{P(A)} = \frac{\left(\frac{1}{6}\right)}{\left(\frac{2}{3}\right)} = \frac{1}{4}$$

$$P(6 \mid A) = \frac{P(6 \cap A)}{P(A)} = \frac{P(\emptyset)}{P(A)} = 0$$

$$P(A \mid 5) = \frac{P(A \cap 5)}{P(5)} = \frac{P(5)}{P(5)} = 1$$

1.4.3 (a) $P(A \heartsuit \mid \text{red suit}) = \frac{P(A \heartsuit \cap \text{red suit})}{P(\text{red suit})} = \frac{P(A \heartsuit)}{P(\text{red suit})} = \frac{\left(\frac{1}{26}\right)}{\left(\frac{13}{26}\right)} = \frac{1}{13}$

$$(b) \quad P(\text{heart} \mid \text{red suit}) = \frac{P(\text{heart} \cap \text{red suit})}{P(\text{red suit})} = \frac{P(\text{heart})}{P(\text{red suit})} = \frac{\left(\frac{13}{26}\right)}{\left(\frac{13}{26}\right)} = \frac{13}{13} = 1$$

$$(c) \quad P(\text{red suit} \mid \text{heart}) = \frac{P(\text{red suit} \cap \text{heart})}{P(\text{heart})} = \frac{P(\text{heart})}{P(\text{heart})} = 1$$

$$(d) \quad P(\text{heart} \mid \text{black suit}) = \frac{P(\text{heart} \cap \text{black suit})}{P(\text{black suit})} = \frac{P(\emptyset)}{P(\text{black suit})} = 0$$

$$(e) \quad P(\text{King} \mid \text{red suit}) = \frac{P(\text{King} \cap \text{red suit})}{P(\text{red suit})} = \frac{P(K \heartsuit, K \diamondsuit)}{P(\text{red suit})} = \frac{\left(\frac{2}{26}\right)}{\left(\frac{13}{26}\right)} = \frac{2}{13} = \frac{1}{13}$$

$$(f) \quad P(\text{King} \mid \text{red picture card}) = \frac{P(\text{King} \cap \text{red picture card})}{P(\text{red picture card})}$$

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