Solutions to Starred Exercises

Chapter 1

- S = {(r, g), (r, b), (g, r), (g, b), (b, r), (b, g)} where, for instance, (r, g) means that the first marble drawn was red and the second one green. The probability of each one of these outcomes is \(\frac{1}{6}\).
- $\frac{3}{2}$. If he wins, he only wins \$1; if he loses, he loses \$3.
- F = E ∪ FE^c, implying since E and FE^c are disjoint that P(F) = P(E) + $P(FE^c)$.

17.
$$P\{\text{end}\} = 1 - P\{\text{continue}\}$$

$$= 1 - [\operatorname{Prob}(H, H, H) + \operatorname{Prob}(T, T, T)]$$

Fair coin:
$$P\{\text{end}\} = 1 - \left[\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} + \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}\right]$$

= $\frac{3}{2}$

Biased coin:
$$P\{\text{end}\} = 1 - \left[\frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} + \frac{3}{4} \cdot \frac{3}{4} \cdot \frac{3}{4}\right]$$

$$=\frac{9}{16}$$

19.
$$E = \text{event at least 1 six}$$

$$P(E) = \frac{\text{number of ways to get } E}{\text{number of sample points}} = \frac{11}{36}$$

$$D = \text{event two faces are different}$$

$$\begin{split} P(D) &= 1 - P(\text{two faces the same}) = 1 - \frac{6}{36} = \frac{5}{6} \\ P(E|D) &= \frac{P(ED)}{P(D)} = \frac{10/36}{5/6} = \frac{1}{3} \end{split}$$

$$P(E|D) = \frac{P(ED)}{P(D)} = \frac{10/36}{5/6} = \frac{1}{3}$$

$$=\frac{3}{51}$$

$$P\{pair \mid different suits\} = \frac{P\{pair, different suits\}}{P\{different suits\}} \\ = \frac{P\{pair\}}{P\{different suits\}}$$

Introduction To Probability Models Chapter Solutions

Richard J. Rossi

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