

# Review of Probability

## 0.1. Experiments and Events

1.1. (a)  $(4 \cdot 3)/(10 \cdot 9) = 12/90$ , (b)  $1 - (30/90 + 12/90) = 48/90$ .

1.2.  $\Omega = \{T, E, N, S\}$ ,  $P(\{T\}) = 1/9$ ,  $P(\{E\}) = 4/9$ ,  $P(\{N\}) = 2/9$ ,  $P(\{S\}) = 2/9$ .

1.3. Breaking things down according to the value on the red die the probability is  $(5 + 4 + 3 + 2 + 1 + 0)/36 = 15/36$ .

1.4. (a)  $(5 + 6 + 5)/36$ , (b)  $(11 + 9)/36$ , (c)  $(2m - 1)/36$ .

1.5. Let  $A$  and  $B$  denote the victory events for the the two teams. (a)  $2/16$ . The only two outcomes are  $AAAA$  and  $BBBB$ . (b)  $4/32$ . For  $A$  to win in exactly five we must have  $BAAAA$ ,  $ABAAA$ ,  $AABAA$ , or  $AAABA$ . (c)  $20/64$ . For  $A$  to win in exactly six  $B$  must win exactly 2 of the first 5 games, which can be done in  $\binom{5}{2} = 10$  ways and  $A$  must win the sixth game. (d)  $40/128$ . For  $A$  to win in exactly seven,  $B$  must win exactly 3 of the first 6 games, which can be done in  $\binom{6}{3} = 20$  ways and  $A$  must win the seventh game.

1.6. (a) Using (1.2),  $P(C \cup A) = P(A) + P(C) - P(A \cap C) = .5 + .25 - .15 = .7$ . (b) Yes since  $P(A \cap C) = .15 = .5 \cdot .25 = P(A) \cdot P(C)$ .

1.7. (a) What we know is that  $P(C) = 160/320$ ,  $P(M) = 170/320$ ,  $P(C \cap M) = 100/320$ . From this it follows that  $P(W) = 150/320$ ,  $P(C \cap W) = 60/320$ , so  $P(C^c \cap W) = 90/320$ , i.e., 90 women did not go to college. (b) No since

$$P(C)P(M) = \frac{160}{320} \cdot \frac{170}{320} = \frac{85}{320} \neq \frac{100}{320} = P(C \cap M)$$

(c)  $P(C|M) = P(C \cap M)/P(M) = 100/170$ . (d)  $P(M|C) = P(M \cap C)/P(C) = 100/160$ .

# Essentials Of Stochastic Processes Solution Durrett

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