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), $P(C \cup A) = P(A) + P(C) - P(A \cap C) = .6 + .25 - .15 = .7$. (b) Yes since $P(A \cap C) = .15 = .6 \cdot .25 = P(A) \cdot P(C)$.

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 $P(C' \cap W) = 90/320$, 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) $P(M|C) = P(M \cap C)/P(C) = 100/160$.

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