

Week in Review–Additional Material sections 7.1, 7.2, and 7.3

1. $S = \{Ace, 2, 3, 4, 5, 6, 7, 8, 9, 10, Jack, Queen, King\}$
2. (a) $S = \{R, E, P, S, N, T, A, I, V\}$
(b) $2^{n(S)} = 2^9 = 512$
(c) $E = \{E, A, I\}$
3. (a) $S = \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$
(b) $E = \{0, 2, 4, 6, 8, 10\}$
(c) $F = \{0, 3, 6, 9\}$
(d) $G = \{0, 5, 10\}$
(e) $H = \{7, 9\}$
(f) $\{5, 7, 10\}$
(g) H and G are mutually exclusive.
H and E are mutually exclusive.
(h) E and F occurred.
4. $S = \{0, 2, 3, 4, 6, 8, 12\}$
5. (a) $S = \{\$0.15, \$0.20, \$0.30, \$0.35, \$0.50\}$
(b) $E = \{\$0.30, \$0.35, \$0.50\}$
(c) $F = \{\$0.15, \$0.20, \$0.30\}$
6. (a) $\frac{34}{100}$
(b) $\frac{43}{100}$
(c) 0
7. $\frac{22}{52}$
8. (a) $P(s_7) = \frac{5}{43}$
 $P(s_8) = \frac{9}{43}$
(b) $\frac{17}{43}$
(c) $\frac{15}{43}$
9. (a) $\frac{11}{17}$
(b) $\frac{8}{17}$
(c) $\frac{14}{17}$
10. (a) $.2 + .4 + .1 = .7$
(b) $.2$