

Chapter 2 Practice Solutions

Section 2.1

1. a. $\frac{9}{26}$, b. $\frac{1}{5}$, c. $\frac{3}{10}$

2. a. {prefer Coke, prefer Pepsi, Prefer other}, b. $\frac{1}{3}$, c. $\frac{3}{10}$

3. approximately 0.54 or 54%

4. {ABC, ABD, ACD, BCD, BAC, ADB, ADC, BDC, ACB, BAD, DAC, CDB, BCA, BDA, DCA, CBD, CBA, DAB, CAD, DBC, CAB, DBA, CDA, DCB}

5. {(1, 6), (6, 1), (2, 5), (5, 2), (4, 3), (3,4)}

6. a. 52, b. {K♥, Q♥, J♥, K♦, Q♦, J♦, K♣, Q♣, J♣, K♠, Q♠, J♠}, c. approximately 0.23 or 23%

7. a. {ACB, CAB, CBA}, b. 0.5, c. approximately 67%

8. a.

	C	C
C	CC	CC
N	CN	CN

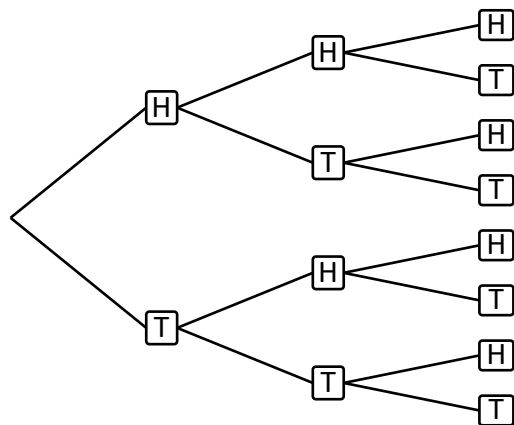
b. 0.5, c. 0.5, d. 0

9. approximately 0.54 or 54%, b. $\frac{25}{24}$ or 25:24

10. approximately 0.024 or 2.4%

Section 2.2

1.



7. 512
8. 136,080
9. 1,048,576
10. Approximately 7.836×10^{10}
11. a. 720, b. 72, 72

Section 2.3

1. a. 120, b. approximately 2.432×10^{18} , c. 6642
2. a. 360, b. 10
3. a. 24, b. 12
4. 4
5. 336
6. 24,928,800
7. 9,579,766,560
8. a. 24, b. 720, c. 10, d. 336, e. 120

Section 2.4

1. 47
2. Approximately 0.97 or 97%
3. Approximately 0.97 or 97%
4. Approximately 0.87 or 87%
5. 0.55
6. 0.55
7. 0.25
8. a. Approximately 0.25 or 25%, b. Approximately 0.55 or 55%, c. Approximately 0.25 or 25%, d. Approximately 0.67 or 67%
9. a. Approximately 0.139 or 13.9%, b. Approximately 0.278 or 27.8%
10. a. 0.925 or 92.5%, b. Approximately 0.94 or 94%
11. a. Approximately 0.33 or 33%, b. Approximately 0.14 or 14%
12. Approximately 0.076 or 7.6%
13. Approximately 0.172 or 17.2%
14. Approximately 0.03 or 3%

Section 2.5

1. 10.27
2. 0 points
3. a. Approximately \$0.39, b. Approximately \$1.39
4. a. \$-0.6, b. \$4.40