

CHAPTER 11, TEST A

1. $1/18$
2. (a) $1/12$ (b) $1/2$
(c) $P(A) = 1/12, P(B) = 1/2, P(A \cap B) = 1/36. P(A \cap B) \neq P(A) \times P(B),$ so the events are **not** independent.
3. (a) $(0.03)^3 = 0.000027$ (b) $(0.97)^3 \approx 0.91$
4. $1/6$ 5. $(0.97)^2 \approx 0.9409$
6. (a) 3 to 23 (b) 23 to 3 7. (a) 3 to 2 (b) 2 to 3
8. (a) 5 to 3 (b) $5/8$ 9. \$1.67
10. 10 cents 11. (a) $2/3$ (b) $1/2$
12. (a) 20 (b) 25 13. (a) $3/7$ (b) $1/7$ (c) $6/7$
14. (a) $25/102$ (b) $10/17$ 15. (a) $1/4$ (b) $121/169$
16. $7/8$ 17. (a) $5/8$ (b) $5/8$
18. 0.6 19. $\frac{5}{442} \approx 0.011$ 20. $1/6$

CHAPTER 11, TEST B

1. (d) 2. (d) 3. (c) 4. (a) 5. (c) 6. (b)
7. (d) 8. (e) 9. (a) 10. (d) 11. (c) 12. (b)
13. (d) 14. (c) 15. (a) 16. (c) 17. (a) 18. (a)
19. (d) 20. (e)