Problems

- 1. There's no change in the probability of getting another head on the 10th flip: p = .5.
- **2. a.** *p* = .019 **b.** *p* = .077 **c.** p = .308**d.** *p* = .25 **e.** *p* = .75 **3. a.** *p* = .20 **b.** *p* = .40 **c.** p = .00**d.** *p* = .87 **e.** *p* = .40 **f.** *p* = .33 **4. a.** *p* = .50 **b.** *p* = .50 **5. a.** *p* = .25 **b.** *p* = .75 **c.** True–false is easier. **6. a.** *p* = .001 **b.** *p* = .003 **c.** p = .006**d.** *p* = .01 **7. a.** *p* = .028 **b.** *p* = .25 **c.** p = .11**d.** *p* = .083 **e.** *p* = .17 **f.** *p* = .33 **8. a.** *p* = .00 **b.** *p* = .13 **c.** p = .20**d.** *p* = .40 **9. a.** *p* = .00667 **b.** *p* = .0134 **c.** *p* = .0267 **d.** *p* = .0535 **e.** *p* = .000268 **10.** p(3 heads in 5 flips) = .346p(4 heads in 5 flips) = .259
- **11. a.** *p* = .38
 - **b.** *p* = .538
 - c. Yes, added information about personality type increases the probability of holding office.
 - **d.** Extraversion and holding office are related, not independent. Knowing personality type changes the probability of holding office.