SELF-TEST

1. a
2. d
3. a. $1/3 = .33$
    b. $1/3 \times 1/3 \times 1/3 = .04$
4. a. $(1/6)^3 = .0046$
    b. $2/6 \times 2/6 \times 3/6 = .056$
    c. $(.056)(3) = .168$
5. a. $1/6 \times 2/5 \times 3/4 = .05$
    b. $2/6 \times 1/5 \times 3/4 = .05$
    c. $3/6 \times 2/5 \times 1/4 = .05$
6. a. p(held office) $= .38$
    b. p(held office $\mid$ intuition) $= .38$
    c. No, the added information about personality does not change the probability of holding office.
    d. Intuition-sensing personality type and holding office *are* independent. Knowing the personality type does not change the probability of holding office. $p(A \mid B) = p(A)$ indicates that events A and B are independent.