

Answer Key

- 1 Choice (a) (a Type II Error)
- 2 Choice (a) ($\frac{448}{2187} = 0.20485$)
- 3 Choice (b) (An incorrect negative against the experimenter's theory)
- 4 Choice (d) (1.8484)
- 5 Choice (a) (6.25%)
- 6 Choice (d) (126)
- 7 Choice (b) (0.19638)
- 8 Choice (a) (0.96721)
- 9 Choice (a) (5.9895×10^{-2})
- 10 Choice (a) (0.375)
- 11 Choice (b) (5040)
- 12 Choice (b) (1.4828)
- 13 Choice (d) (All of the above answers are correct)
- 14 Choice (b) (Increase α)
- 15 Choice (g) (0.64521)
- 16 Choice (d) (73.692, 86.708)
- 17 Choice (b) (4.0)
- 18 Choice (a) ($\{2, 5\}$)
- 19 Choice (a) (equal to $\Pr(A) + \Pr(B) - \Pr(A \cap B)$)
- 20 Choice (d) (Stay relaxed but vigilant, knowing that the odds are still about 24 to 1 that your date is not the killer)
- 21 Choice (c) (3.9994×10^{-4})
- 22 Choice (b) (0.44)
- 23 Choice (b) (faster (i.e., at a smaller N) when sampling from a uniform distribution than when sampling from a highly skewed distribution)
- 24 Choice (b) (-0.10526)
- 25 Choice (d) (14; 1)
- 26 Choice (c) (A 2-tailed test of a point hypothesis)
- 27 Choice (b) (4096)
- 28 Choice (b) (3.0)
- 29 Choice (c) (3.55)
- 30 Choice (d) (6.25%)
- 31 Choice (b) (286)
- 32 Choice (d) (The null hypothesis would not be rejected)
- 33 Choice (c) (0.43188)