

- 1) Compute the probability of X successes. 1) _____
 $n = 7, X = 6, p = 0.3$
A) 0.857 B) 0.996 C) 0.3 D) 0.004
- 2) Determine the indicated probability for a binomial experiment with the given number of trials n and the given success probability p . 2) _____
 $n = 13, p = 0.7, P(\text{Fewer than } 4)$
A) 0.0040 B) 0.0007 C) 0.0001 D) 0.9993
- 3) Determine the indicated probability for a binomial experiment with the given number of trials n and the given success probability p . 3) _____
 $n = 11, p = 0.5, P(9 \text{ or more})$
A) 0.9673 B) 0.0327 C) 0.1133 D) 0.0059
- 4) Determine the indicated probability for a binomial experiment with the given number of trials n and the given success probability p . 4) _____
 $n = 14, p = 0.1, P(3 \text{ or fewer})$
A) 0.8416 B) 0.9559 C) 0.0441 D) 0.9908
- 5) In a large bag of marbles, 30% of them are red. A child chooses 4 marbles from this bag. If the child chooses the marbles at random, what is the chance that the child gets exactly three red marbles? 5) _____
A) 0.176 B) 0.076 C) 0.265 D) 0.108
- 6) A student takes a 15-question, multiple-choice exam with three choices for each question and guesses on each question. Find the probability of guessing exactly 2 out of 15 correctly. 6) _____
A) 0.060 B) 0.940 C) 0.333 D) 0.133
- 7) If a student randomly guesses at 20 multiple-choice questions, find the probability that the student gets exactly four correct. Each question has four possible choices. 7) _____
A) 0.218 B) 0.162 C) 0.190 D) 0.085
- 8) A coin is tossed five times. Find the probability of getting exactly three heads. 8) _____
A) 0.313 B) 0.156 C) 0.125 D) 0.800
- 9) Find the mean for the values of n and p when the conditions for the binomial distribution are met. 9) _____
 $n = 700, p = 0.45$
A) 315 B) 385 C) 173.25 D) 13.2

- 10) The failure rate for taking the bar exam in Philadelphia is 41%. If 375 people take the bar exam, what is the mean for the number of failures? 10) _____
A) 138.1 B) 221.3 C) 90.7 D) 153.8
- 11) Find the variance for the values of n and p when the conditions for the binomial distribution are met. 11) _____
 $n = 900, p = 0.3$
A) 189 B) 270 C) 13.7 D) 630
- 12) A coin is tossed 72 times. Find the standard deviation for the number of heads that will be tossed. 12) _____
A) 4.24 B) 18 C) 6.78 D) 36

Answer Key

Testname: PRACTICE15

- 1) D
- 2) B
- 3) B
- 4) B
- 5) B
- 6) A
- 7) C
- 8) A
- 9) A
- 10) D
- 11) A
- 12) A