

- 1) A probability experiment is conducted. Which of these cannot be considered a probability outcome? 1) _____
A) 1.21 B) 0.21 C) $\frac{1}{4}$ D) 16%
- 2) If $P(A) = 0.22$, $P(B) = 0.55$, and A and B are mutually exclusive, find: $P(A \text{ or } B)$, $P(A \text{ and } B)$, $P(\text{not } A)$. 2) _____
A) 0.77; 0; 0.78 B) 0.67; 1; 0
- 3) If $P(A) = 0.70$, $P(B) = 0.25$, and $P(A \text{ or } B) = 0.84$, are A and B mutually exclusive? 3) _____
A) No B) Yes
- 4) Two dice are rolled. Find the probability of getting doubles or a sum of 2. 4) _____
A) $\frac{1}{6}$ B) $\frac{1}{4}$
- 5) If a die is rolled one time, find these probabilities: a) Getting a 5, b) Getting a 3 or an even number, c) Getting a number greater than 3 and an even number. 5) _____
A) 0.233, 0.100, 0.345 B) 0.167, 0.667, 0.333
- 6) A fair die is rolled two times. What is the probability that both rolls are 3? 6) _____
A) 0.028 B) 0.167
- 7) If one card is drawn from a deck, find the probability of getting these results: a) A black king, b) A club or a diamond, c) An ace and a heart 7) _____
A) 0.038, 0.500, 0.019 B) 0.300, 0.500, 0.100
- 8) Let A and B be events with $P(A) = 0.2$, $P(B) = 0.8$, and $P(B|A) = 0.3$. Find $P(A \text{ and } B)$. 8) _____
A) 0.67 B) 0.06
- 9) How many different ways can 10 different books be arranged on a shelf? 9) _____
A) 3628800 B) 10000000
- 10) If the letters A, B, C, D, E, and F are to be used in a four-letter code, how many different codes are possible if repetitions are *not* permitted? How many if repetitions are permitted? 10) _____
A) 720, 1290 B) 360, 1296

Answer Key

Testname: STA2023_REVIEW02B

- 1) A
- 2) A
- 3) A
- 4) A
- 5) B
- 6) A
- 7) A
- 8) B
- 9) A
- 10) B
- 11) A
- 12) A
- 13) A
- 14) B
- 15) A