## Chapter - 15

## Probability

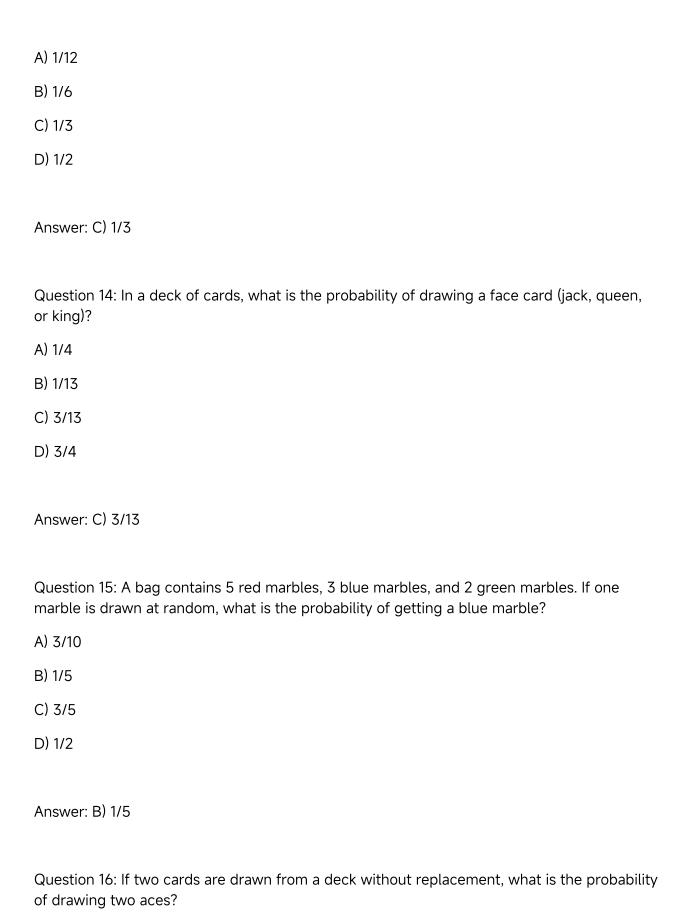
Question 1: Probability is defined as:
A) The study of random events
B) The likelihood of an event occurring
C) The study of statistics
D) The analysis of data patterns
Answer: B) The likelihood of an event occurring
Question 2: The probability of an impossible event is:
A) 0
B) 1
C) 0.5
D) Cannot be determined
Answer: A) 0
Question 3: The sum of the probabilities of all possible outcomes of an experiment is always:
A) 0
B) 1
C) 0.5
D) Cannot be determined

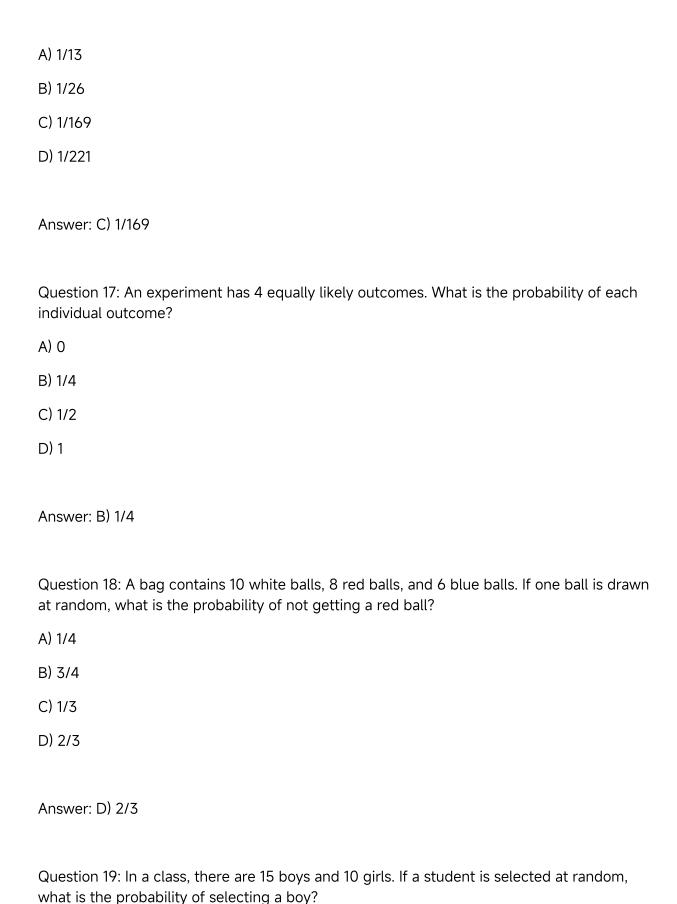
Answer: B) 1
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Question 4: The probability of an event that is certain to happen is:
A) 0
B) 1
C) 0.5
D) Cannot be determined
Answer: B) 1
Question 5: The probability of an event that cannot occur is:
A) 0
B) 1
C) 0.5
D) Cannot be determined
Answer: A) 0
Question 6: The probability of an event that is equally likely to occur or not occur is:
A) 0
B) 1
C) 0.5
D) Cannot be determined
Answer: C) 0.5

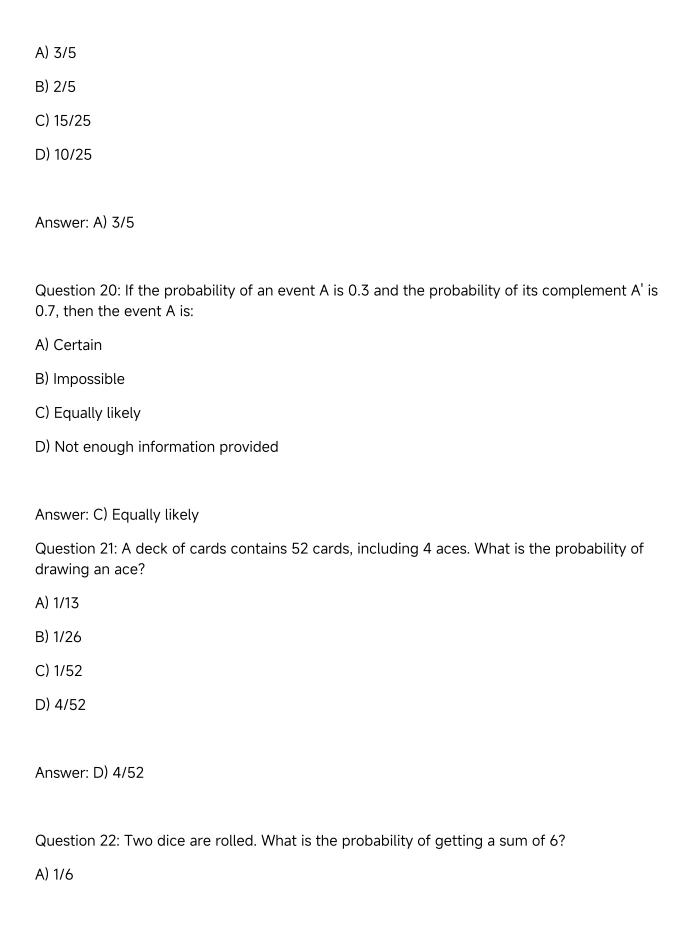
Question 7: The probability of an event that is mutually exclusive with another event is:
A) The sum of their probabilities
B) The difference between their probabilities
C) The product of their probabilities
D) Cannot be determined
Answer: A) The sum of their probabilities
Question 8: Two dice are rolled. What is the probability of getting a sum of 7?
A) 1/6
B) 1/12
C) 1/36
D) 1/2
Answer: A) 1/6
Question 9: A deck of cards contains 52 cards. What is the probability of drawing a spade?
A) 1/13
B) 1/26
C) 1/52
D) 1/4
Answer: A) 1/13

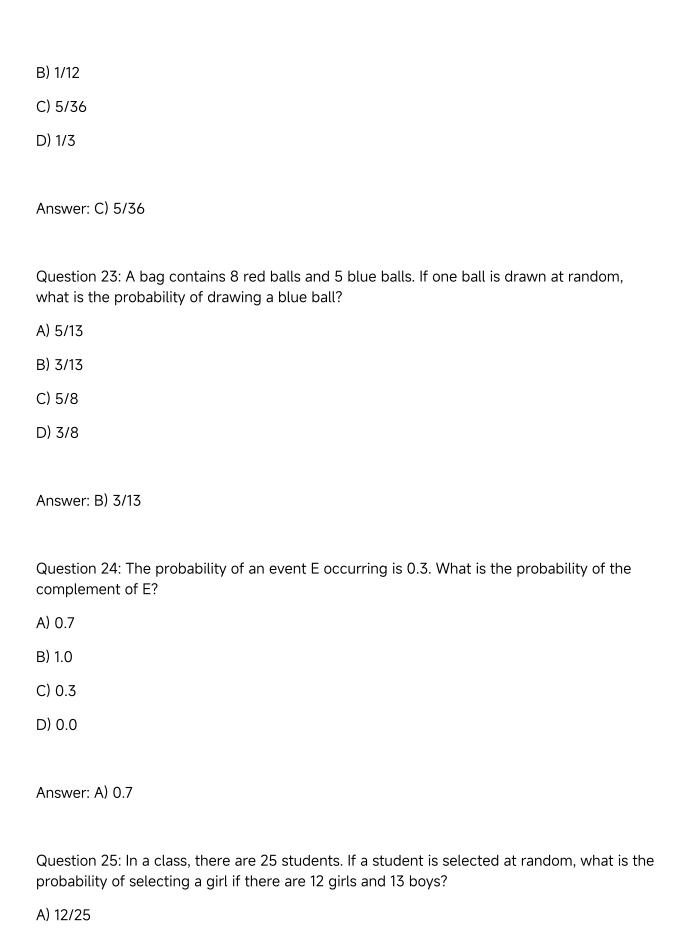
Question 10: A bag contains 6 red balls and 4 green balls. What is the probability of drawing a red ball?
A) 1/2
B) 3/5
C) 6/10
D) 4/10
Answer: C) 6/10
Question 11: What is the probability of getting a tail when tossing a fair coin?
A) 0
B) 1/2
C) 1
D) 2
Answer: B) 1/2
Question 12: A box contains 5 red balls, 3 green balls, and 2 blue balls. What is the probability of drawing a green ball?
A) 3/10
B) 1/5
C) 3/8
D) 2/5
Answer: A) 3/10

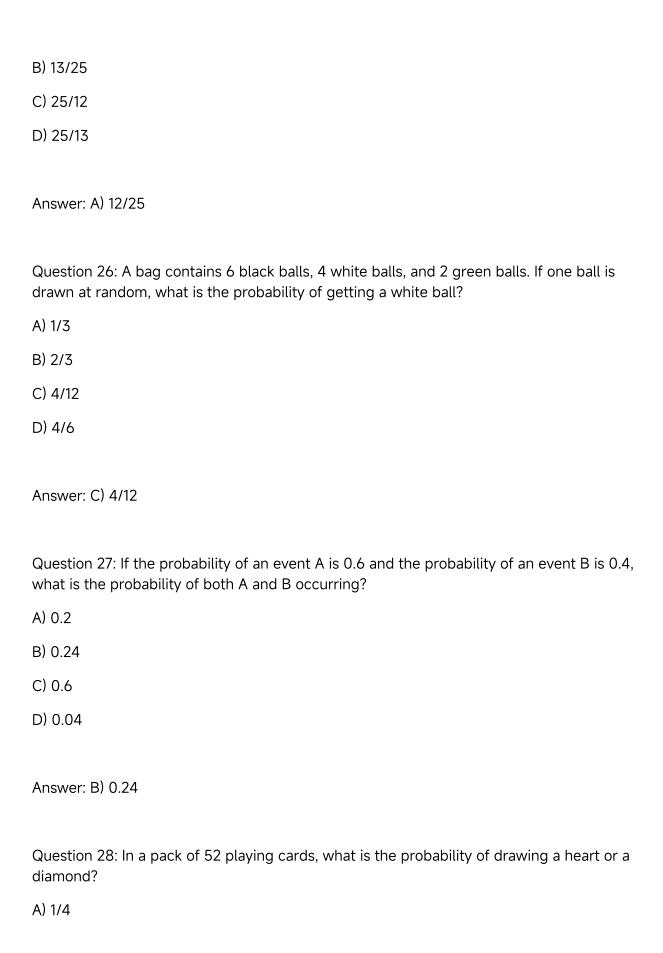
Question 13: Two dice are rolled. What is the probability of getting a sum greater than 9?

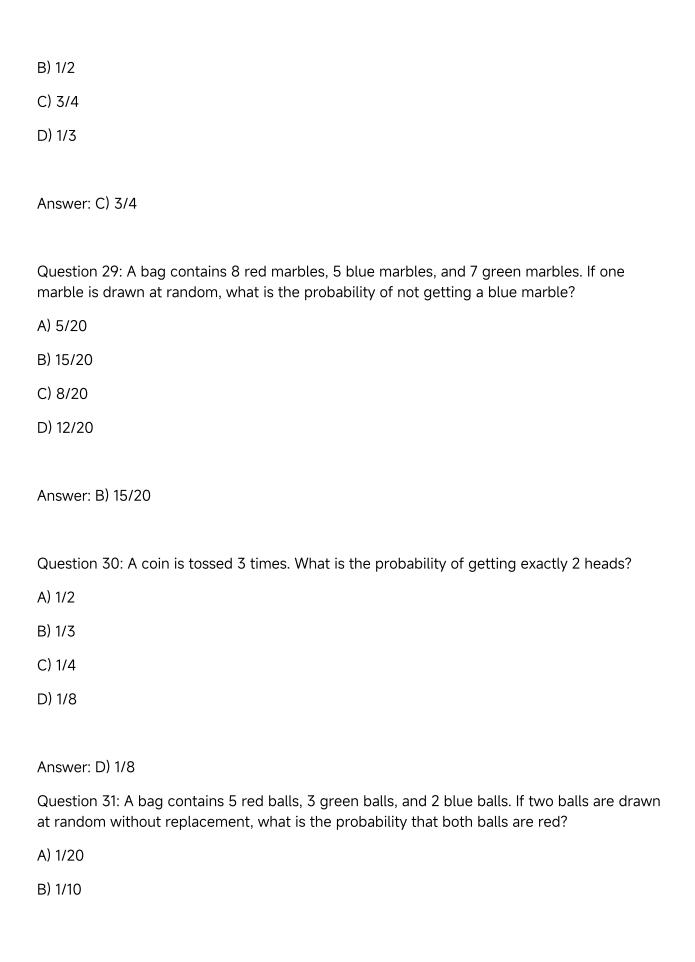


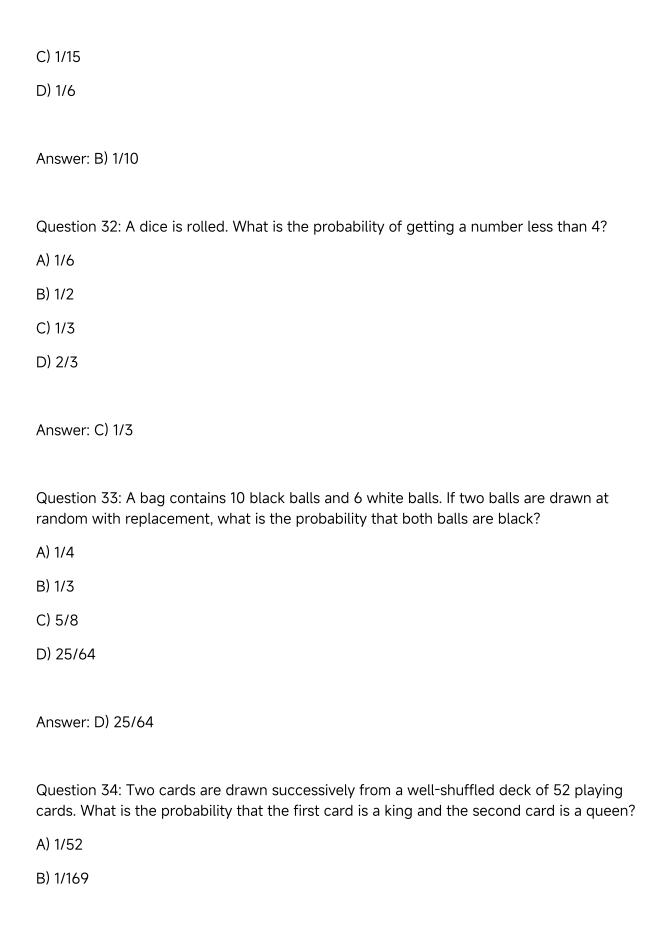


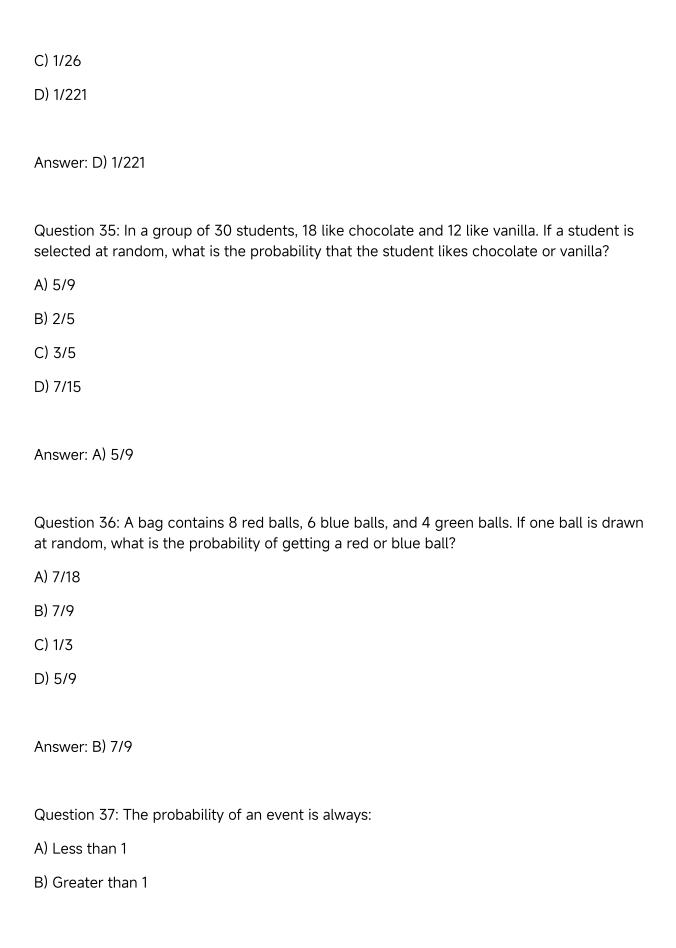




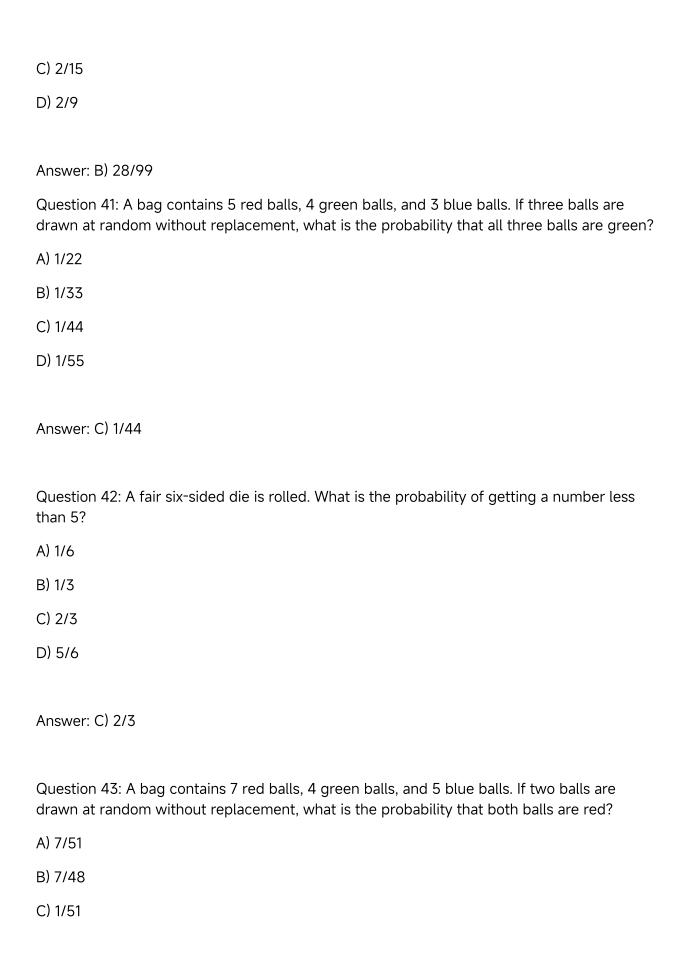


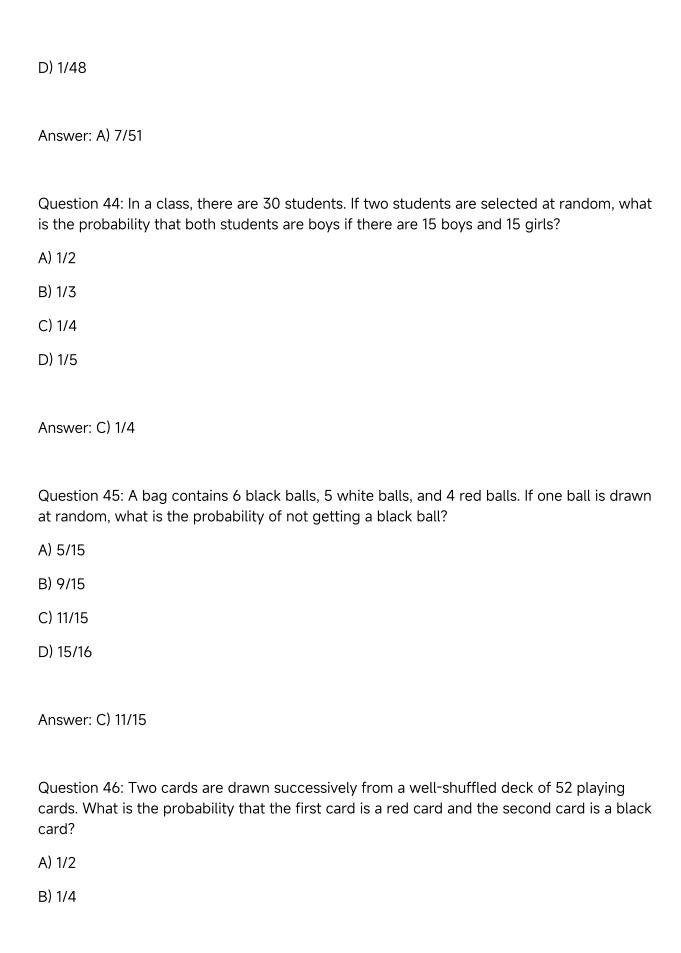


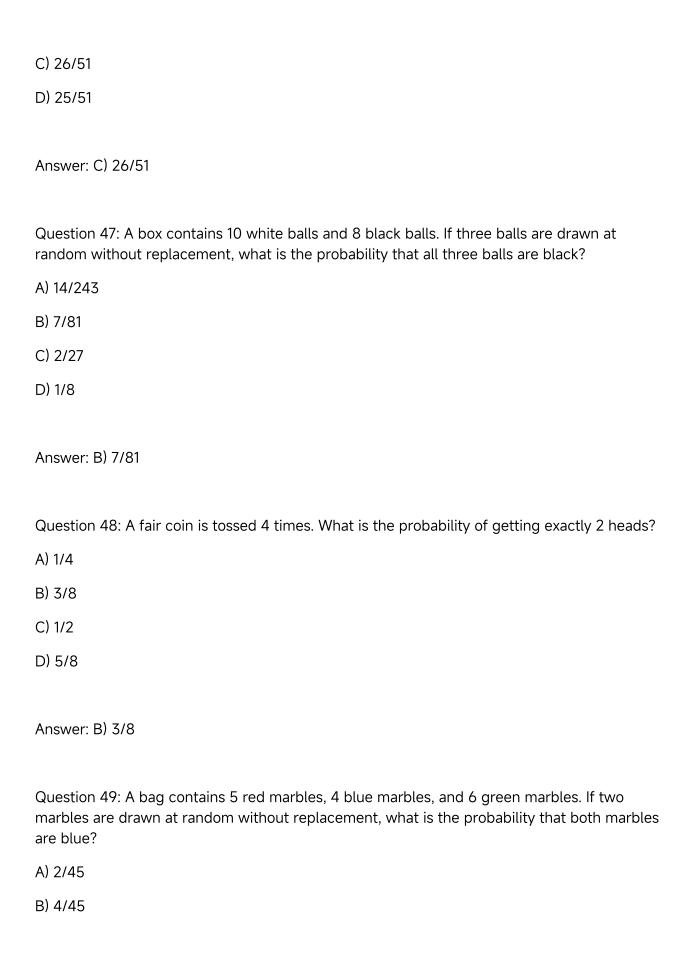




C) Between 0 and 1
D) Either 0 or 1
Answer: C) Between 0 and 1
Question 38: A bag contains 6 red balls and 4 green balls. If two balls are drawn at random
with replacement, what is the probability that both balls are green?
A) 1/10
B) 1/15
C) 1/25
D) 1/36
Answer: D) 1/36
Question 39: If the probability of an event A is 0.2 and the probability of its complement A' is 0.8, then the event A is:
A) Certain
B) Impossible
C) Equally likely
D) Not enough information provided
Answer: A) Certain
Question 40: A box contains 8 red balls and 7 blue balls. If three balls are drawn at random without replacement, what is the probability that exactly two balls are red?
A) 35/99
B) 28/99







C) 4	4/55
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D) 2/55

Answer: A) 2/45

Question 50: A box contains 10 pens, out of which 4 are defective. If 2 pens are drawn at random without replacement, what is the probability that both pens are not defective?

- A) 3/5
- B) 7/15
- C) 6/15
- D) 2/5

Answer: B) 7/15