Probability of Multiple Events Exit Quiz

Part A Instructions: Choose the option that completes the sentence or answers the question.

1. **If an event *C* can occur k times and the total number of possible outcomes is N, the probability of event *C* is:**

    a. N
    b. k
    c. k^n
    d. $\frac{k}{N}$

2. **The events Heads and Tails possible when a coin flipped are:**

    a. Mutually inclusive
    b. Overlapping events
    c. Mutually exclusive
    d. Dependent

3. **If there are two mutually exclusive events with probability P(Q) and P(R), then the probability that both events occur is given by:**

    a. $P(Q).P(R)$
    b. $P(Q) + P(R)$
    c. $P(Q) - P(R)$
    d. $P(Q) + P(R) - P(Q).P(R)$

4. **Rolling a dice multiple times is:**

    a. Mutually inclusive
    b. An Overlapping event
    c. An Independent event
    d. A Dependent event

Part B Instructions: Answer the question below.

5. **Two cards are drawn from a deck. After the first card is drawn, the card is not replaced before next drawing of a card. What is the probability that the first card is a face card and the second card is a jack?**