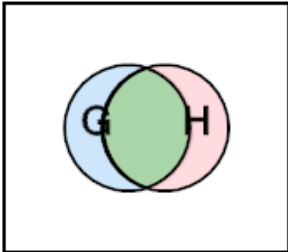




Probability Union, Intersection, Complement - Venn Diagram and Details to Union Probability

1 Events G and H are not mutually exclusive and not independent. Which equation gives the probability that G or H occurs?



A $P(G \cup H) = P(G) + P(H) - P(G \cap H)$

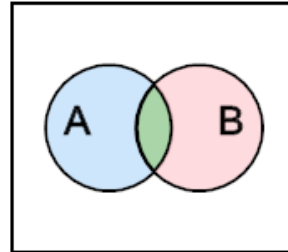
B

$P(G \cup H) = P(G) + P(H) - P(G) \cdot P(H)$

C

$P(G \cup H) = P(G) + P(H)$

2 Events A and B are independent. Which equation gives the probability that A or B occurs?



A $P(A \cup B) = P(A) \cdot P(B)$

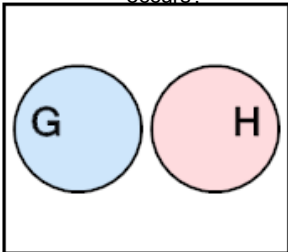
B

$P(A \cup B) = P(A) + P(B) - P(A) \cdot P(B)$

C

$P(A \cup B) = P(A) + P(B)$

3 Events G and H are mutually exclusive. Which equation gives the probability that G or H occurs?



A $P(G \cup H) = P(G) \cdot P(H)$

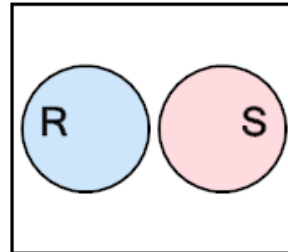
B

$P(G \cup H) = P(G) + P(H)$

C

$P(G \cup H) = P(G) + P(H) - P(G) \cdot P(H)$

4 Events R and S are mutually exclusive. Which equation gives the probability that R or S occurs?



A $P(R \cup S) = P(R) + P(S)$

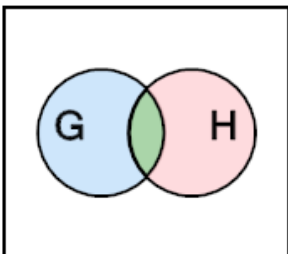
B

$P(R \cup S) = P(R) + P(S) - P(R) \cdot P(S)$

C

$P(R \cup S) = P(R) \cdot P(S)$

5 Events G and H are independent. Which equation gives the probability that G or H occurs?



A $P(G \cup H) = P(G) + P(H)$

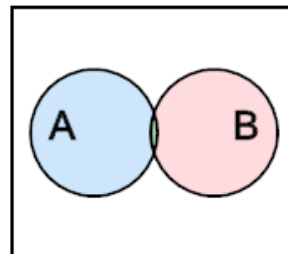
B

$P(G \cup H) = P(G) \cdot P(H)$

C

$P(G \cup H) = P(G) + P(H) - P(G) \cdot P(H)$

6 Events A and B are not mutually exclusive and not independent. Which equation gives the probability that A or B occurs?



A $P(A \cup B) = P(A) + P(B) - P(A \cap B)$

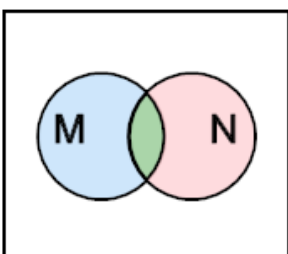
B

$P(A \cup B) = P(A) + P(B)$

C

$P(A \cup B) = P(A) + P(B) - P(A) \cdot P(B)$

7 Events M and N are independent. Which equation gives the probability that M or N occurs?



A $P(M \cup N) = P(M) + P(N) - P(M) \cdot P(N)$

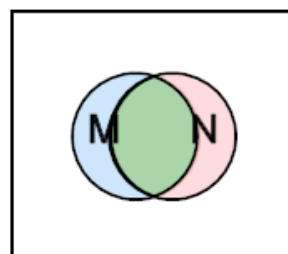
B

$P(M \cup N) = P(M) \cdot P(N)$

C

$P(M \cup N) = P(M) + P(N)$

8 Events M and N are not mutually exclusive and not independent. Which equation gives the probability that M or N occurs?



A $P(M \cup N) = P(M) + P(N) - P(M) \cdot P(N)$

B

$P(M \cup N) = P(M) + P(N)$

C

$P(M \cup N) = P(M) + P(N) - P(M \cap N)$