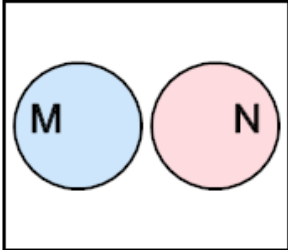


Probability Union, Intersection, Complement - Venn Diagram and Details

to Intersection Probability

- 1 Events M and N are mutually exclusive. Which equation gives the probability that both M and N occur?

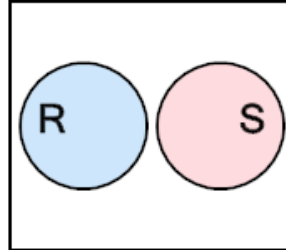


A $P(M \cap N) = 0$

B Cannot be determined without more information

C $P(M \cap N) = P(M) \cdot P(N)$

- 2 Events R and S are mutually exclusive. Which equation gives the probability that both R and S occur?

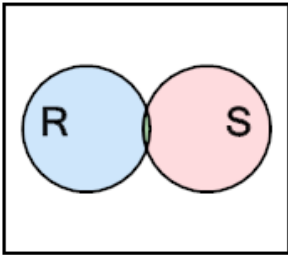


A $P(R \cap S) = P(R) \cdot P(S)$

B $P(R \cap S) = 0$

C Cannot be determined without more information

- 3 Events R and S are not mutually exclusive and not independent. Which equation gives the probability that both R and S occur?

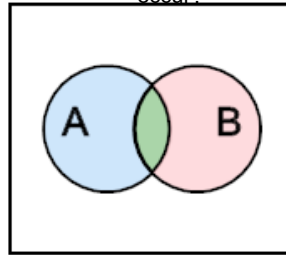


A $P(R \cap S) = P(R) \cdot P(S)$

B Cannot be determined without more information

C $P(R \cap S) = 0$

- 4 Events A and B are independent. Which equation gives the probability that both A and B occur?

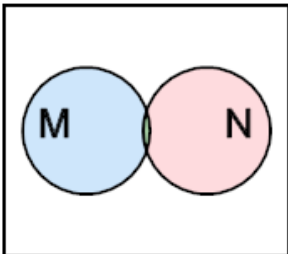


A $P(A \cap B) = 0$

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

C Cannot be determined without more information

- 5 Events M and N are not mutually exclusive and not independent. Which equation gives the probability that both M and N occur?

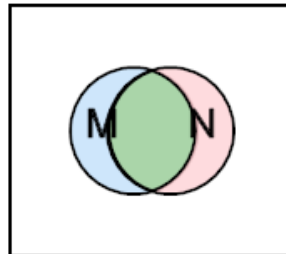


A Cannot be determined without more information

B $P(M \cap N) = P(M) \cdot P(N)$

C $P(M \cap N) = 0$

- 6 Events M and N are not mutually exclusive and not independent. Which equation gives the probability that both M and N occur?

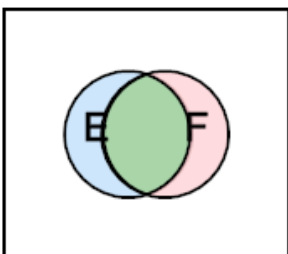


A $P(M \cap N) = P(M) \cdot P(N)$

B Cannot be determined without more information

C $P(M \cap N) = 0$

- 7 Events E and F are not mutually exclusive and not independent. Which equation gives the probability that both E and F occur?

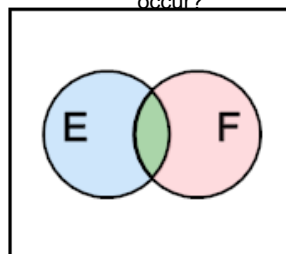


A $P(E \cap F) = P(E) \cdot P(F)$

B $P(E \cap F) = 0$

C Cannot be determined without more information

- 8 Events E and F are independent. Which equation gives the probability that both E and F occur?



A $P(E \cap F) = P(E) \cdot P(F)$

B Cannot be determined without more information

C $P(E \cap F) = 0$