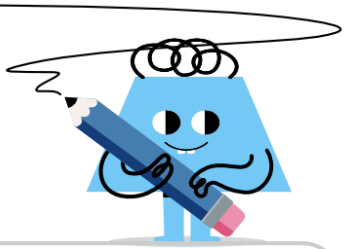
Name

Probability Union, Intersection, Complement - Letter Tiles Example Problem to Formula



1 What formula would give you the chance of the selected letter being 'H', if you know that the selected letter is before 'R' in the alphabet?

H

A $P(\text{'H'}) + P(\text{before 'R'}) - P(\text{'H'} \cap \text{before 'R'})$

B $\dfrac{P(\text{before 'R'} \cap \text{'H'})}{P(\text{'H'})}$

C $\dfrac{P(\text{'H'} \cap \text{before 'R'})}{P(\text{before 'R'})}$

2 What formula would give you the chance of not drawing an 'Y'?

Y

A $1 - P(Y)$

B $P(Y) + P(Y) - P(Y \cap Y)$

C $P(Y) \cdot P(Y)$

3 What formula would give you the chance of drawing an 'C' twice in a row?

C

A $P(C_1) \cdot P(C_2)$

B $P(C_1) + P(C_2) - P(C_1 \cap C_2)$

C $1 - P(C_1)$

4 What formula would give you the chance of drawing an 'P' twice in a row?

P

A $P(P_1) \cdot P(P_2)$

B $P(P_1) + P(P_2) - P(P_1 \cap P_2)$

C $1 - P(P_1)$

5 What formula would give you the chance of not drawing an 'M'?

M

A $\dfrac{P(M \cap M)}{P(M)}$

B $1 - P(M)$

C $P(M) + P(M) - P(M \cap M)$

6 What formula would give you the chance of not drawing an 'T'?

T

A $1 - P(T)$

B $P(T) \cdot P(T)$

C $P(T) + P(T) - P(T \cap T)$

7 What formula would give you the chance of drawing an 'V' at least once given two tries?

V

A $P(V_1) + P(V_2) - P(V_1 \cap V_2)$

B $1 - P(V_1)$

C $P(V_1) \cdot P(V_2)$

8 What formula would give you the chance of drawing an 'L' twice in a row?

L

A $\dfrac{P(L_1 \cap L_2)}{P(L_2)}$

B $1 - P(L_1)$

C $P(L_1) \cdot P(L_2)$