Name

# Probability Union, Intersection, Complement - Coins Example Problem to Formula

**1** What formula would give you the chance of flipping heads at least once given two tries?


A $1 - P(H_1)$

B $P(H_1) \cdot P(H_2)$

C $P(H_1) + P(H_2) - P(H_1 \cap H_2)$

**2** What formula would give you the chance of flipping tails at least once given two tries?


A $P(T_1) \cdot P(T_2)$

B $P(T_1) + P(T_2) - P(T_1 \cap T_2)$

C $\dfrac{P(T_1 \cap T_2)}{P(T_2)}$

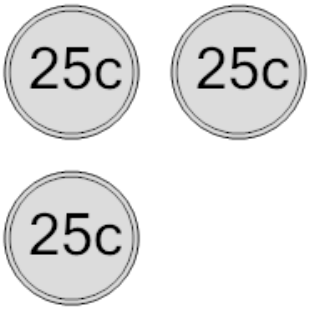
**3** What formula would give you the chance of flipping tails twice in a row?


A $P(T_1) \cdot P(T_2)$

B $\dfrac{P(T_1 \cap T_2)}{P(T_2)}$

C $P(T_1) + P(T_2) - P(T_1 \cap T_2)$

**4** What formula would give you the chance of flipping at least one heads in 3 tries?

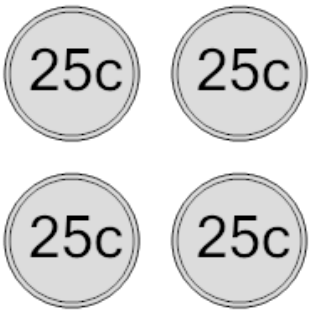



A $1 - P(\text{All Tails})$

B $P(\text{All Tails}) + P(\text{All Tails}) - P(\text{All Tails} \cap \text{All Tails})$

C $\dfrac{P(\text{All Tails} \cap \text{All Tails})}{P(\text{All Tails})}$

**5** What formula would give you the chance of flipping at least one heads in 4 tries?

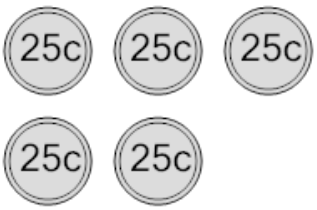



A $P(\text{All Tails}) + P(\text{All Tails}) - P(\text{All Tails} \cap \text{All Tails})$

B $1 - P(\text{All Tails})$

C $\dfrac{P(\text{All Tails} \cap \text{All Tails})}{P(\text{All Tails})}$

**6** What formula would give you the chance of flipping at least one heads in 5 tries?




A $P(\text{All Tails}) \cdot P(\text{All Tails})$

B $P(\text{All Tails}) + P(\text{All Tails}) - P(\text{All Tails} \cap \text{All Tails})$

C $1 - P(\text{All Tails})$

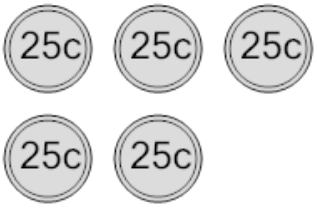
**7**


What formula would give you the chance of flipping heads twice in a row?

A $P(H_1) + P(H_2) - P(H_1 \cap H_2)$

B $P(H_1) \cdot P(H_2)$

**8** What formula would give you the chance of flipping at least one tails in 5 tries?




A $P(\text{All Heads}) \cdot P(\text{All Heads})$

B $1 - P(\text{All Heads})$

C $P(\text{All Heads}) + P(\text{All Heads}) - P(\text{All Heads} \cap \text{All Heads})$