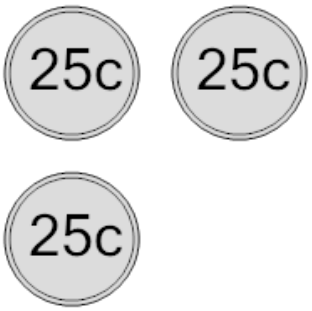
Name

Probability Union, Intersection, Complement - Coins Example Problem to Set Operation

1 What set operation would give you the probability of flipping at least one tails in 3 tries?

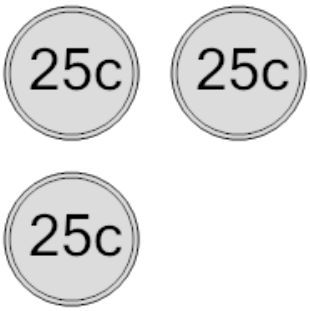


A $P(\text{All Heads}|\text{All Heads})$

B $P(\text{All Heads} \cap \text{All Heads})$

C $P(\text{All Heads}')$

2 What set operation would give you the probability of flipping at least one heads in 3 tries?



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

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

C $P(\text{All Tails}')$

3 What set operation would give you the probability of flipping at least one tails in 2 tries?

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

B $P(\text{All Heads}')$

4 What set operation would give you the probability of flipping tails twice in a row?

A $P(T_1 \cup T_2)$

B $P(T_1 \cap T_2)$

C $P(T_1')$

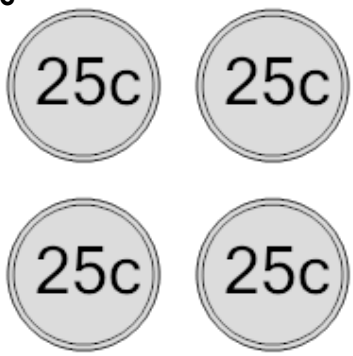
5 What set operation would give you the probability of flipping tails at least once given two tries?

A $P(T_1 \cap T_2)$

B $P(T_1|T_2)$

C $P(T_1 \cup T_2)$

6



What set operation would give you the probability of flipping at least one tails in 4 tries?

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

B $P(\text{All Heads} \cap \text{All Heads})$

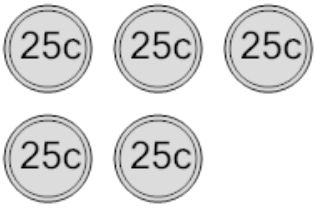
7

What set operation would give you the probability of getting exactly 2 tails when flipping 4 coins, given that the first flip was tails?

A $P(\text{2 tails} \cap \text{first is tails})$

B $P(\text{2 tails}|\text{first is tails})$

8 What set operation would give you the probability of flipping at least one heads in 5 tries?



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

B $P(\text{All Tails}')$

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