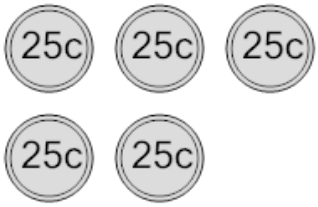
Name

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

1 What set operation would give you the probability of getting exactly 2 heads when flipping 5 coins, given that the first flip was heads?



A $P(2 \text{ heads}')$

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

C $P(2 \text{ heads} \cap \text{first is heads})$

2 What set operation would give you the probability of not rolling a 6?

A $P(6')$

B $P(6 \cup 6)$

C $P(6|6)$

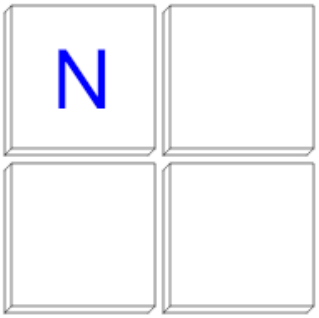
3 What set operation would give you the probability of flipping at least one heads in 2 tries?

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

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

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

4 What set operation would give you the probability of drawing an 'N' twice in a row?

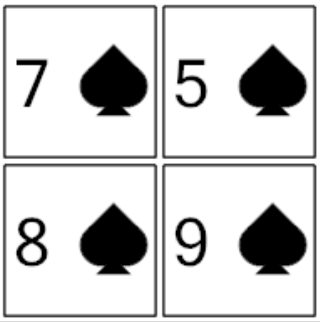


A $P(N_1 \cup N_2)$

B $P(N_1|N_2)$

C $P(N_1 \cap N_2)$

5 What set operation would give you the probability of not drawing a card that is a spade?



A $P(\text{spades} \cup \text{spades})$

B $P(\text{spades}')$

C $P(\text{spades} \cap \text{spades})$

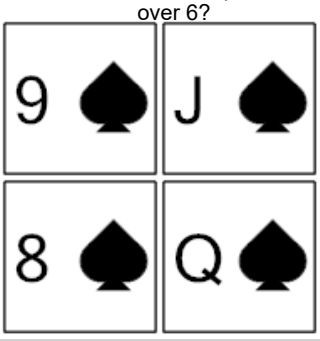
6 What set operation would give you the probability of flipping tails at least once given two tries?

A $P(T_1 \cap T_2)$

B $P(T_1')$

C $P(T_1 \cup T_2)$

7 What set operation would give you the probability of drawing a card that is both a spade and over 6?



A $P(\text{spades}')$

B $P(\text{spades} \cup \text{over 6})$

C $P(\text{spades} \cap \text{over 6})$

8 What set operation would give you the probability of landing on 8, given that the spinner landed on a number greater than 4?

A $P(8 \cup >4)$

B $P(>4|8)$

C $P(8|>4)$