Name

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

1

What set operation would give you the probability of not drawing a card that is over 6?

A $P(\text{over } 6')$

B $P(\text{over } 6|\text{over } 6)$

2

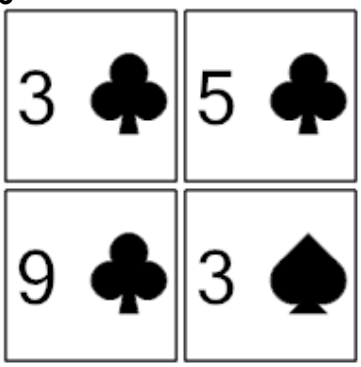
What set operation would give you the probability of drawing a card that is both a 5 and red?

A $P(5|\text{red})$

B $P(5')$

C $P(5 \cap \text{red})$

3



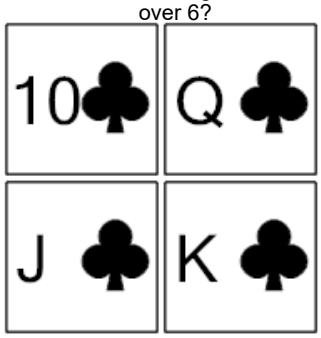
What set operation would give you the probability of drawing a card that is odd, given that it is black?

A $P(\text{odd}|\text{black})$

B $P(\text{odd} \cap \text{black})$

4

What set operation would give you the probability of drawing a card that is a club, given that it is over 6?



A $P(\text{clubs}|\text{over } 6)$

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

C $P(\text{over } 6|\text{clubs})$

5

What set operation would give you the probability of drawing a card that is under 6, given that it is over 4?

A $P(\text{over } 4|\text{under } 6)$

B $P(\text{under } 6')$

C $P(\text{under } 6|\text{over } 4)$

6

What set operation would give you the probability of drawing a card that is under 8, given that it is over 4?

A $P(\text{under } 8|\text{over } 4)$

B $P(\text{under } 8 \cap \text{over } 4)$

C $P(\text{over } 4|\text{under } 8)$

7

What set operation would give you the probability of drawing a card that is a 2, given that it is black?

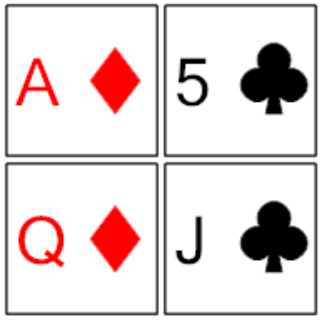
A $P(\text{black}|2)$

B $P(2|\text{black})$

C $P(2')$

8

What set operation would give you the probability of drawing a card that is a club or over 8?



A $P(\text{clubs}|\text{over } 8)$

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

C $P(\text{clubs} \cup \text{over } 8)$