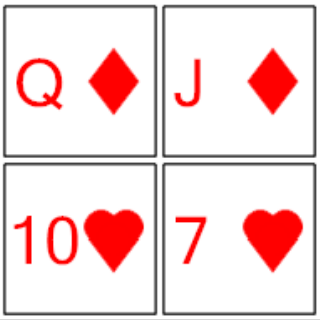
Name

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

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

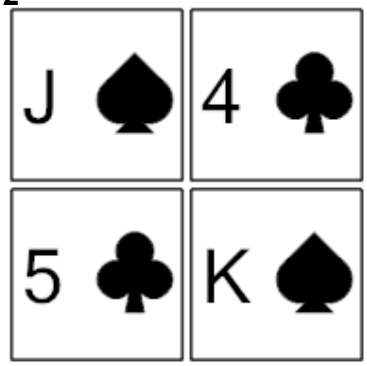


A $P(\text{red} \cup \text{over 6})$

B $P(\text{red} \cap \text{over 6})$

C $P(\text{red}')$

2

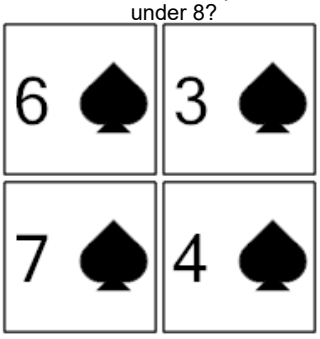


What set operation would give you the probability of drawing a card that is a 7 or black?

A $P(7 \cup \text{black})$

B $P(7')$

3 What set operation would give you the probability of drawing a card that is both a spade and under 8?

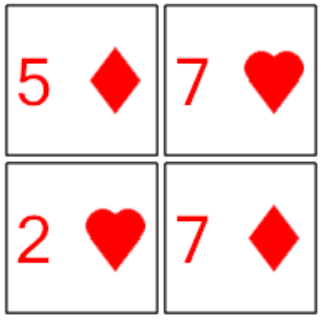


A $P(\text{spades}')$

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

C $P(\text{spades} \cup \text{under 8})$

4 What set operation would give you the probability of drawing a card that is both under 8 and red?



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

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

C $P(\text{under 8} \cup \text{red})$

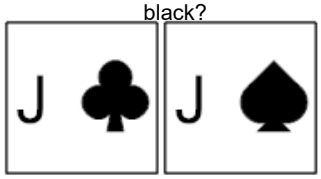
5

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

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

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

6 What set operation would give you the probability of drawing a card that is both a Jack and black?



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

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

C $P(J')$

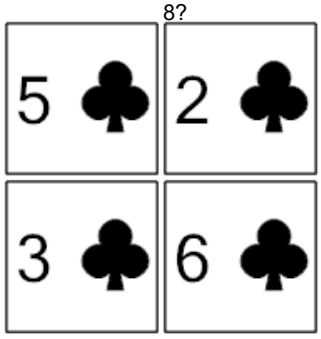
7 What set operation would give you the probability of drawing a card that is both a 2 and red?

A $P(2 \cup \text{red})$

B $P(2')$

C $P(2 \cap \text{red})$

8 What set operation would give you the probability of drawing a card that is both a club and under 8?



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

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

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