

5-25. Xavier decided to play a card game with his friend, Travis. He told Travis that if he picked a black card with a value of nine or greater, Travis would win. (Jacks, queens, and kings are considered to be greater than nine.) If Xavier picked a red card with a value of less than nine, Xavier would win. (Aces are considered to have the value of one in this case.)

a. What is the probability that Travis will win?

b. What is the probability that Xavier will win?

c. Is this a fair game? Why or why not?

5-25. Xavier decided to play a card game with his friend, Travis. He told Travis that if he picked a black card with a value of nine or greater, Travis would win. (Jacks, queens, and kings are considered to be greater than nine.) If Xavier picked a red card with a value of less than nine, Xavier would win. (Aces are considered to have the value of one in this case.)

a. What is the probability that Travis will win?

b. What is the probability that Xavier will win?

c. Is this a fair game? Why or why not?

5-25. Xavier decided to play a card game with his friend, Travis. He told Travis that if he picked a black card with a value of nine or greater, Travis would win. (Jacks, queens, and kings are considered to be greater than nine.) If Xavier picked a red card with a value of less than nine, Xavier would win. (Aces are considered to have the value of one in this case.)

a. What is the probability that Travis will win?

b. What is the probability that Xavier will win?

c. Is this a fair game? Why or why not?

5-25. Xavier decided to play a card game with his friend, Travis. He told Travis that if he picked a black card with a value of nine or greater, Travis would win. (Jacks, queens, and kings are considered to be greater than nine.) If Xavier picked a red card with a value of less than nine, Xavier would win. (Aces are considered to have the value of one in this case.)

a. What is the probability that Travis will win?

b. What is the probability that Xavier will win?

c. Is this a fair game? Why or why not?

5-25. Xavier decided to play a card game with his friend, Travis. He told Travis that if he picked a black card with a value of nine or greater, Travis would win. (Jacks, queens, and kings are considered to be greater than nine.) If Xavier picked a red card with a value of less than nine, Xavier would win. (Aces are considered to have the value of one in this case.)

a. What is the probability that Travis will win?

b. What is the probability that Xavier will win?

c. Is this a fair game? Why or why not?

*5-25. Xavier decidió jugar a las cartas con su amigo Travis. Le dijo a Travis que si escogía una carta negra con un valor de nueve o más, Travis ganaría. (Se considera que las jotas, reinas y reyes son mayores que nueve). Si Xavier escogiera una tarjeta roja con un valor menor que nueve, Xavier ganaría. (Se considera que los ases tienen el valor de uno en este caso).*

*a. ¿Cuál es la probabilidad de que Travis gane?*

*b. ¿Cuál es la probabilidad de que Xavier gane?*

*c. ¿Es este un juego limpio? ¿Por qué o por qué no?*