Probability with a Deck of Cards

These questions are based on a 52 card deck without Jokers.

1) Find the probability of drawing a face card that is a Heart on the first draw, replacing it and drawing a black card on the second draw.

_____

2) Find the probability of drawing a Diamond.

_____

3) Find the probability of drawing a face card that is a Club.

_____

4) Find the probability of drawing a Diamond 5 through 8 on the first draw, replacing it and drawing a face card on the second draw.

_____

5) Find the probability of drawing a red card on the first draw, replacing it and drawing a face card on the second draw.

_____

6) Find the probability of drawing a 7 through 8 on the first draw, replacing it and drawing a face card on the second draw.

_____

7) Find the probability of drawing a Spade 4 through 10 on the first draw, replacing it and drawing a King card on the second draw.

_____

8) Find the probability of drawing a black 4 through 6 on the first draw, replacing it and drawing a Ace card on the second draw.

_____

9) Find the probability of drawing a red face card on the first draw, replacing it and drawing a black card on the second draw.

_____

10) Find the probability of drawing a Spade 2 through 5 on the first draw, replacing it and drawing a Club card on the second draw.

_____

Name : _____   Score : _____

Teacher : _____   Date : _____

Probability with a Deck of Cards

These questions are based on a 52 card deck without Jokers.

1) Find the probability of drawing a face card that is a Heart on the first draw, replacing it and drawing a black card on the second draw.

$\dfrac{3}{104}$

2) Find the probability of drawing a Diamond.

$\dfrac{1}{4}$

3) Find the probability of drawing a face card that is a Club.

$\dfrac{3}{52}$

4) Find the probability of drawing a Diamond 5 through 8 on the first draw, replacing it and drawing a face card on the second draw.

$\dfrac{3}{169}$

5) Find the probability of drawing a red card on the first draw, replacing it and drawing a face card on the second draw.

$\dfrac{3}{26}$

6) Find the probability of drawing a 7 through 8 on the first draw, replacing it and drawing a face card on the second draw.

$\dfrac{6}{169}$

7) Find the probability of drawing a Spade 4 through 10 on the first draw, replacing it and drawing a King card on the second draw.

$\dfrac{7}{676}$

8) Find the probability of drawing a black 4 through 6 on the first draw, replacing it and drawing a Ace card on the second draw.

$\dfrac{3}{338}$

9) Find the probability of drawing a red face card on the first draw, replacing it and drawing a black card on the second draw.

$\dfrac{3}{52}$

10) Find the probability of drawing a Spade 2 through 5 on the first draw, replacing it and drawing a Club card on the second draw.

$\dfrac{1}{52}$