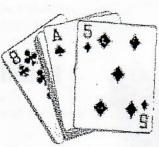


STILL FEELING LUCKY? DRAW YOU FOR IT!



How many cards in a standard deck? 52 How many red cards? 26 / black? 26

How many suits? 4 What are they? diamonds hearts, gendes, and Clubs

How many of each suit are there? 13

How many "face" cards? $\frac{12}{2}$ What are they? $\frac{1}{2}$ and $\frac{1}{2}$ What do the "numbered" cards count from $\frac{1}{2}$ to $\frac{1}{2}$

How many of each kind are there?

Did I miss anything important? 4 Aces

Can you find the probability of drawing 1 card and getting the following?

1. P(red card) = $\frac{26}{52} = \frac{50\%}{6}$ 2. P(face card) = $\frac{12}{52} = \frac{23\%}{6}$ 3. P(5) = $\frac{4}{52} = \frac{7.7\%}{6}$ 4. P(black ace) = $\frac{2}{52} = \frac{3.8\%}{6}$ 5. P(red numbered card) = $\frac{18}{52} = \frac{34.6\%}{6}$ 6. P(2,3, or 4) = $\frac{12}{52} = \frac{23\%}{6}$

Let's find if the theoretical probability matches the experimental probability! Draw a card ____ times and record the outcome. Why ____ times? -can we?

TIME TO CHALLENGE YOU!

Let's draw a pair (2) of cards and find the probability of drawing the following: HOLD IT! IS THERE SOME RULES NEEDED TO ANSWER THESE QUESTIONS?

7. P(ace, king) =

8. P(2 red cards) =

9. P(2 face cards) =

10. P(queen, and then NOT a queen) =

11. P(2 jacks) =

12. Place, jack)

WARNING: THIS IS WHERE THINGS GET REALLY TOUGH! DRAW 5 CARDS!

13. P(2, 3, 4, 5, 6) =

14. P(2 of a kind, 3 of a kind) =

15. P(10, jack, queen, king, ace) =

16. P(all 5, same color) =

THIS SHOULD BY NO MEANS ENCOURAGES GAMBLING. THIS IS SIMPLY AN EXPLORATION OF MATHEMATICS AND PROBABILITY.