

Re: Card pairing probabilities

Source: <http://sci.tech-archive.net/Archive/sci.math/2006-01/msg05105.html>

- *From:* "Michael Harrington" <mikharr@xxxxxxxxxxxxx>
 - *Date:* Tue, 31 Jan 2006 21:11:56 +1100
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"Phil Freedenberg" <pfreedenberg@xxxxxxxxxxxxx> wrote in message
<news:21169342.1138690532120.JavaMail.jakarta@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx>

> Suppose a standard deck of 52 cards is randomized.

>

> How would you calculate the probability that no
> adjacent cards have the same value (e.g., pair of
> treys, pair of Kings, etc.)

>

> What is the expected number of such pairs in a deck?

>

> phil

Simulation run 1,000,000 shows 51,076 shuffles without a pair adjacent

"" "" 156,414 "" "" with any 1

pair adjacent

"" "" 235,142 "" "" with any 2

pair adjacent

You can have more faith in the sim if 2nd & 3rd results agree with
Stephen's reasoning.

HTH Mick

• *References:*

◆ *Card pairing probabilities*

◇ *From:* Phil Freedenberg

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