

Problems from Assignment 21

1. A poker-dealing machine is supposed to deal cards at random, as if from an infinite deck.

In a test, you counted 1600 cards, and observed the following:

Spades	404
Hearts	420
Diamonds	400
Clubs	376

Could it be that the suits are equally likely? Construct a hypothesis test to address this question and put bounds on the  $p$ -value of the test.