

**ZMATH 2016c.00896**

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**The hypergeometric distribution: an application from poker.**

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Summary: Card games offer interesting and accessible opportunities to illustrate various aspects of probability. This article introduces the hypergeometric probability distribution and uses it to confirm the probability of occurrence of a flush in the card game poker. In addition, the results of a simple experiment to examine the expected versus actual frequencies of poker hands are reported.

*Classification:* K50 K60 M90

*Keywords:* hypergeometric distribution; card games; poker