Name _____ Date _____

Probability

Enter answers in text boxes.

Complete.

1. Danielle is rolling an unusual die that has different colors on each of its thirteen sides. What is the probability that she will roll either a red or a yellow on her first roll? _____

2. If the odds of winning a particular card game are 1:4, about how many times can you expect to win if you play the game one thousand times? _____

3. You are playing the “shell” game. In this game, there is object (let’s say a coin) hidden under one of three cups and you have to try and guess which cup it is under. Assuming the game is fair and there are three cups, what is the probability you will guess correctly on the first try? _____

4. On the planet Snibelimus, they have an interesting card game called Blionko. Blionko cards have no numbers or any other symbols on them. A set of Blionko cards includes four hundred forty cards, made up of equal numbers of red, blue, green, yellow, pink, silver, gold, brown, black, and white cards. The rules of Blionko are incomprehensible to humans. However, if a human got a hold of one of these decks and randomly pulled a card from it, what would be the probability of a red card being pulled? Assume the different colored cards are randomly distributed throughout the deck. _____

5. What is the theoretical probability of randomly pulling a red card from standard deck of 52 playing cards? Assume that the red cards are randomly distributed throughout the deck. _____

6. Nathan is playing with a standard die. On his last roll he got a six. What is the probability he will get a six the next roll? _____

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