

A.P. Statistics
Assignment 5-5

Remember to show your thinking through your work.

1. For each of the following, determine if the experiment describes a geometric distribution. If it is not a geometric setting, state why. If it is a geometric setting, describe
 1. the two outcomes
 2. what constitutes one trial
 3. the probability of success

a. Flip a coin until you observe a head.

b. Draw a card from a standard deck of cards, observe the card, and replace it. Count the number of times you do this until you observe a king.

c. Record the number of made shots a basketball player makes out of 10 attempts.

d. There are 5 green marbles and 20 blue marbles in a jar. You reach in and take out a marble. You keep removing marbles until you observe a green marble.

e. Roll two 6-sided die and examine their sum. Roll the dice until you roll a sum of 11.