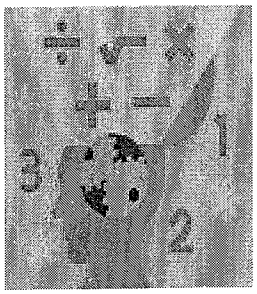

Name _____

Date _____

Period _____

Pre-Algebra
Probability Practice

1. Decide whether or not the following sequences of events are independent. If they are, write "Independent." If they are not, write "Dependent" and explain why they are not.

   (a) Flipping a coin and getting heads, then flipping it again and getting tails

   _____

   (b) Rolling doubles with two dice, then rolling doubles again

   _____

   (c) Drawing (and removing) two aces from a normal deck of cards, then drawing two kings

   _____

   (d) Drawing (and removing) a red ball from a bag initially containing two red balls and three white balls, then drawing a white ball

   _____

2. Find the probability for each of the sets of events given below by first determining if the events are independent or dependent.

   (a) Randomly choosing a person who is over 6 feet tall from a group of 120, among who 32 are over 6 feet tall. The first person chosen is removed from the group and placed in another room. What is the probability of choosing another person over 6 foot tall person?

   _____

   (b) Rolling a 6 with one die, then rolling again and getting another 6

   _____

   (c) Drawing an ace from a normal deck of 52 cards, replacing the card, reshuffling, and drawing an ace again

   _____

   (d) Two separate machines, each 99 percent reliable (1 percent probability of breaking down), both breaking down

   _____