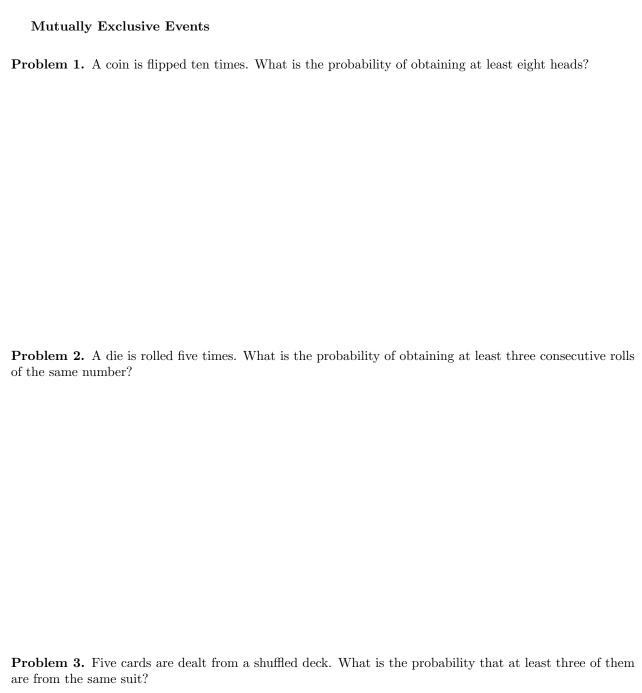
Algebra II	Activity 0504
Dr. Paul L. Bailey	Thursday, May 4, 2023



Name:

Independent Events

Problem 4. Three cards are dealt from a deck.

- (a) What is the probability that all are face cards?
- (b) What is the probability that all are hearts?
- (c) What is the probability that all are face cards and are hearts? Are these events independent?

Problem 5. At East Podunk State Teacher's College, the Underwater Basketweaving class reached capacity, with 40 total students. The number of students of a given gender (M or F) or grade (A, B, or C) is given in the chart below.

	A	В	С
M	3	8	5
F	11	12	1

A student is selected from the class at random

- (a) Find the probability that the student is male.
- (b) Find the probability that the student is getting a B.
- (c) Find the probability that the student is a male who is getting a B. Are these events independent?
- (d) Find the probability that the student is getting a C.
- (e) Find the probability that the student is a male who is getting a C. Are these events independent?