

Math 382, Fall 2011. Homework 1

Due Aug. 25

NAME _____

Notes: Chapter 2, Problems 2, 4

Problem 1A.

The sample space consists of eight capital letters (outcomes), A, B, C, ..., H. Let V = event that the letter represents a vowel, and L = event that the letter is made of straight lines. Describe the outcomes that comprise

- a) VL
- b) $V \cup L'$
- c) $V'L'$

Problem 1B.

A sample of mutual funds was classified according to whether a fund was up or down last year (A and A') and whether it was investing in international stocks (B and B'). The probabilities of these events and their intersections are represented in the two-way table below.

	B	B'	
A	0.25	?	?
A'	?	?	0.67
	0.53	?	1

- a) Fill out all the ? marks.
- b) Find the probability of $A \cup B$