Random Variables



University of Minnesota Random Variables

Preliminaries

Probability

Objectives

• Define 'random variable'

Roll one standard (six-sided) die. Let X denote the number on the die.

k	P(X = k)
1	<u>1</u> 6
2	<u>1</u> 6
3	<u>1</u> 6
4	<u>1</u> 6
5	<u>1</u> 6
6	<u>1</u> 6

Flip two coins. Let *X* denote the number of heads.



Random Variables

A **random variable** is a set of numbers associated with outcomes of a random experiment. A probability distribution assigns probabilities to the values in the set.

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