Section 2.1: Intro to Probability

Monday, January 15, 2018 8:53 AM

probability: used as a tool to evaluate the reliability of conclusions about a population bossed on a sample

- of population is known, use probability to give the likelihood of the next experimental attente
 - to make stelements about population bessed on your sample

experiment - process by which an observation (measurement) is obtained

- ask someone a question

-7 make a measurement with an instrument

simple event - the outcome observed on a sixtle regetition of an experiment

examples: roll a six-sided die on get: 1,2,3,...6

flip a coin can: HT event - a collection of simple events
(sometimes called "compound event")

example: colling a six-sided die

event "not rolling a one": { 2,3,4,5,6}

"rolling an even number": {2,4,6}

mutually exclusive - two events are mutually exclusive if when one event occurs, the other cannot occur

example: { rolling an odd number rolling a 2

nole: can have events left over: 4,6

mulvally exclusive events do not have to "span the sample space"

simple events are always mutually exclusive