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Discrete Random Variables

Chapter

4

- 4.2 A discrete variable can assume a countable number of values while a continuous random variable can assume values corresponding to any point in one or more intervals.
- 4.4
- The amount of flu vaccine in a syringe is measured on an interval, so this is a continuous random variable.
 - The heart rate (number of beats per minute) of an American male is countable, starting at whatever number of beats per minute is necessary for survival up to the maximum of which the heart is capable. That is, if m is the minimum number of beats necessary for survival, x can take on the values $(m, m + 1, m + 2, \dots)$ and is a discrete random variable.
 - The time necessary to complete an exam is continuous as it can take on any value $0 \leq x \leq L$, where L = limit imposed by instructor (if any).
 - Barometric (atmospheric) pressure can take on any value within physical constraints, so it is a continuous random variable.
 - The number of registered voters who vote in a national election is countable and is therefore discrete.
 - An SAT score can take on only a countable number of outcomes, so it is discrete.

Mcclave Statistics 11th Edition Solution Manual

Susan Reiland



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