

**Distinguish discrete and continuous data****1**

Experiment: flip 5 coins. Which of these could be the random variable X ?

A

The probability of getting exactly 2 heads

B

The number of heads

2

Experiment: roll 3 dice. Let X = the number of sixes rolled. What values can X take?

A

$\{0, 1, 2, 3, 4\}$

B

$\{0, 1, 2, 3\}$

C

$\{1, 2, 3, 4\}$

D

$\{1, 2, 3\}$

3

Lifespan of a household light bulb

A

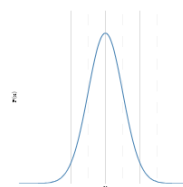
Discrete

B

Continuous

4

Would this model represent a discrete or a continuous random variable?



A

Discrete

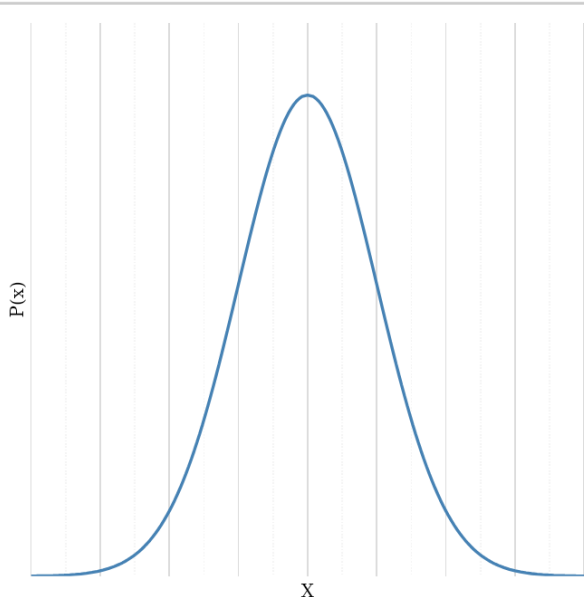
B

Continuous

5

Continuous

A



B

X	$P(X)$
X_1	$P(X_1)$
X_2	$P(X_2)$
X_3	$P(X_3)$

**Distinguish discrete and continuous data****6**

Which random variable could be represented by this model?

X	$P(X)$
X_1	$P(X_1)$
X_2	$P(X_2)$
X_3	$P(X_3)$

A Blood pressure of a patient

B Customers entering a coffee shop during one hour

7

Continuous

A

Time required to complete a marathon

B

Pieces of luggage checked by a passenger

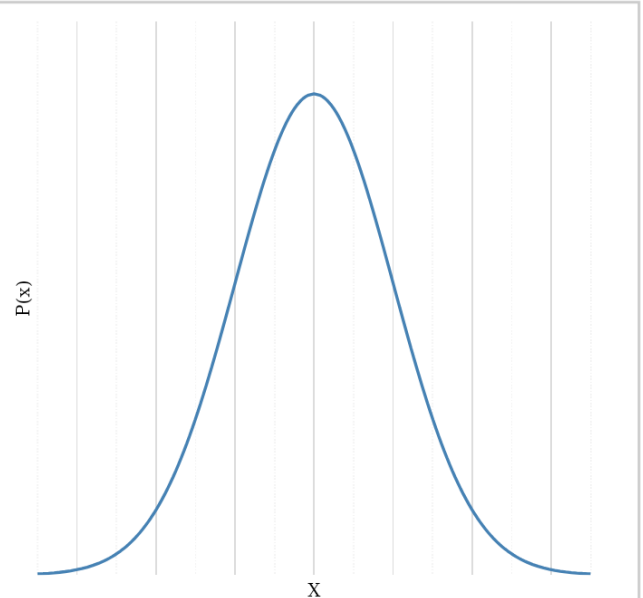
8

Students absent from a classroom

A

X	$P(X)$
X_1	$P(X_1)$
X_2	$P(X_2)$
X_3	$P(X_3)$

B

**9**

Fuel consumed during a road trip

A Quantitative (continuous)

B Quantitative (discrete)

C Qualitative

10

Quantitative (discrete)

A Weight of a checked suitcase

B Number of customers entering a store in one hour

C Daily rainfall in a city