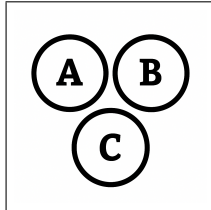


Discrete Random Variables



$$X(HHH) = 3$$

$$X(HHT) = 2$$

$$X(HTH) = 2$$

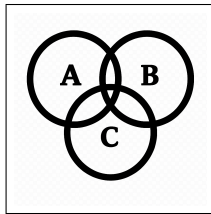
$$X(THH) = 2$$

$$X(HTT) = 1$$

$$X(THT) = 1$$

$$X(TTH) = 1$$

$$X(TTT) = 0$$



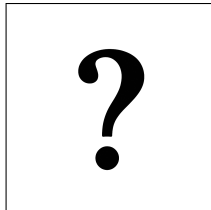
$$X : \Omega \rightarrow 0, 1, 2, 3$$

$$P(X = 0) = \frac{1}{8}$$

$$P(X = 1) = \frac{3}{8}$$

$$P(X = 2) = \frac{3}{8}$$

$$P(X = 3) = \frac{1}{8}$$

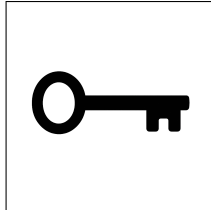


$$A = \{G, G, G, G, G, R\}$$

$$X \in \{1, 2, 3, 4, 5, 6\}$$

$$P(X = x) = ?$$

Discrete Random Variables



$A = \{G, G, G, G, G, R\}$

$X \in \{1, 2, 3, 4, 5, 6\}$

$P(X = x) = ?$

$$P(X = x) = \frac{1}{|A|} = \frac{1}{6} \approx 0.17$$