

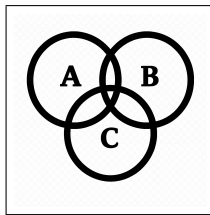
B

Bernoulli Trials

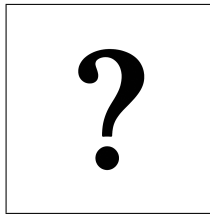
B



$$n = 2$$
$$p = 0.50$$
$$k = 1$$



$$P(X = k) = \binom{n}{k} (p)^k (1 - p)^{n-k}$$
$$P(X = 1) = \binom{2}{1} (0.50)^1 (0.50)^1$$
$$P(X = 1) = 2 \times 0.50 \times 0.50$$
$$P(X = 1) = \boxed{0.50}$$

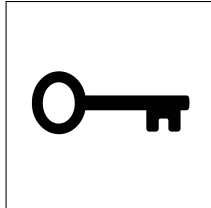


$$n = 4$$
$$p = 0.25$$
$$k = 2$$
$$P(X = 2) = ?$$

B

Bernoulli Trials

B



$$\begin{aligned}n &= 4 \\p &= 0.25 \\k &= 2 \\P(X = 2) &= ?\end{aligned}$$

$$\begin{aligned}P(X = 2) &= \binom{4}{2} (0.25)^2 (0.75)^2 \\P(X = 2) &= 6 \times 0.0625 \times 0.5625 \\P(X = 2) &= 0.2109375\end{aligned}$$