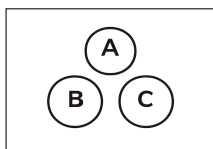


19

Discrete Distribution Bernoulli Trials

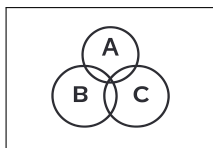
N



$$n = 2$$

$$p = 0.50$$

$$k = 1$$

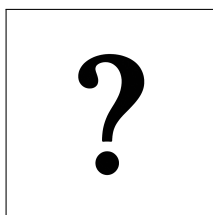


$$P(X = k) = \binom{n}{k} (p)^k (1 - p)^{n-k}$$

$$P(X = 1) = \binom{2}{1} (0.50)^1 (0.50)^1$$

$$P(X = 1) = 2 \times 0.50 \times 0.50$$

$$P(X = 1) = \boxed{0.50}$$



$$p = 0.25$$

$$n = 8$$

$$E[X] = ?$$

19

Discrete Distribution Bernoulli Trials

N



$$p = 0.25$$
$$n = 8$$
$$E[X] = ?$$

$$E[X] = n \times p = 8 \times 0.25 = \boxed{2}$$