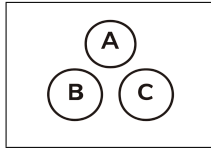
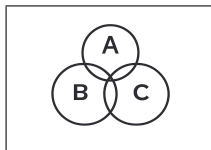


# U Poisson Random Variable U

---



$$\lambda = 1$$



$$P(X = k) = e^{-\lambda} \frac{\lambda^k}{k!}$$

$$P(X = 0) = e^{-1} \frac{1^0}{0!} = e^{-1} \approx \boxed{0.37}$$



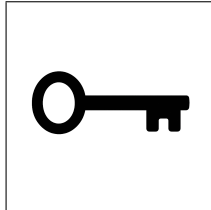
$$p = 0.25$$

$$n = 5$$

$$P(K = 0) = ?$$

# U Poisson Random Variable U

---



$$p = 0.25$$
$$n = 5$$
$$P(K = 0) = ?$$

---

$$\lambda = 5 \times 0.25 = 1.25$$
$$P(K = 0) = e^{-1.25} \approx \boxed{0.2865}$$