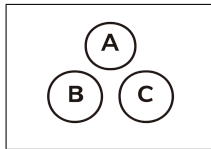
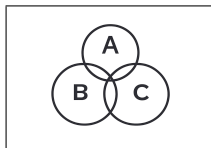


A Poisson Random Variable A

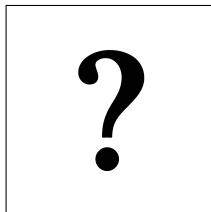


$$\lambda = 1$$



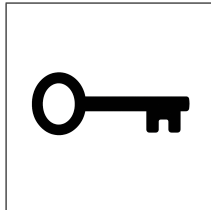
$$P(X = k) = e^{-\lambda} \frac{\lambda^k}{k!}$$

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



$$\lambda = 4$$

A Poisson Random Variable A



$$P(X = 0) = e^{-4} \frac{4^0}{0!} = e^{-4} \approx \boxed{0.018}$$