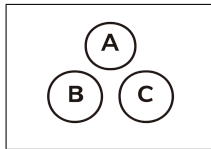
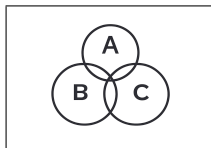


# P Poisson Random Variable P

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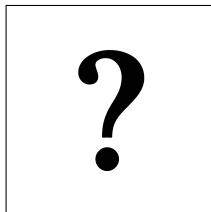


$$\lambda = 1$$



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

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

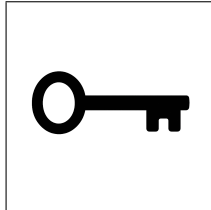


$$n = 1000$$

$$p = 0.001$$

# P Poisson Random Variable P

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$$n = 1000$$
$$p = 0.001$$

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$$P(X = 0) = e^{-1} = 0.3679$$