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Assuming the number of raisins in a cookie

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Assuming the number of raisins in a cookie X can be described by a

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Assuming the number of raisins in a cookie X can be described by a Poisson distribution and that the mean value of X is

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Assuming the number of raisins in a cookie X can be described by a Poisson distribution and that the mean value of X is λ we get

$$P(X \geq 1) =$$

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Assuming the number of raisins in a cookie X can be described by a Poisson distribution and that the mean value of X is λ we get

$$P(X \geq 1) = 1 -$$

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Assuming the number of raisins in a cookie X can be described by a Poisson distribution and that the mean value of X is λ we get

$$P(X \geq 1) = 1 - P(X = 0) =$$

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Assuming the number of raisins in a cookie X can be described by a Poisson distribution and that the mean value of X is λ we get

$$P(X \geq 1) = 1 - P(X = 0) = 1 - e^{-\lambda}$$

solving

$$e^{-\lambda} =$$

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$$e^{-\lambda} = 0.01$$

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$$P(X \geq 1) = 1 - P(X = 0) = 1 - e^{-\lambda}$$

solving

$$e^{-\lambda} = 0.01$$

gives

$$\lambda = 4.605$$