

Example 6 Poisson Distribution

The number of hits on a certain website follows a Poisson distribution with a mean rate of 4 per minute. What is the probability that at least 63 hits are received in 15 minutes?

In this problem we need to adjust λ . Since the average rate of hits is 4/minute, in 15 minutes the average rate will be $\lambda = 4(15) = 60$. Here we must use the formula.

$$P(X \geq 63) = 1 - P(X \leq 62) = 1 - e^{-60} \frac{60^{62}}{62!} = 1 - 0.0066 \\ = 0.9934$$

Poisson Distribution Examples And Solutions

O García

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Statistics: Problems and Solutions John Murdoch, J.A. Barnes, 1973-06-18

Study Guide and Student Solutions Manual for Use with Statistics, a First Course, First Canadian Edition Robert K. Smidt, 2001

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Journal of the American Statistical Association, 1992 A scientific and educational journal not only for professional statisticians but also for economists business executives research directors government officials university professors and others who are seriously interested in the application of statistical methods to practical problems in the development of more useful methods and in the improvement of basic statistical data

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