

## 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  $\lambda$ . 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

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