Answer on Question #79132 — Math — Statistics and Probability

Question

If 3% of the fruits brought into the market are over ripe, find the probability that 5 are over ripe in a sample of 100 fruits.

Solution

p = 0.03 k= 5 n = 100 $P(k, n) = \frac{\lambda^{k} e^{-\lambda}}{k!}, \text{ where } \lambda = np \text{ (Poisson formula).}$ $P(k, n) = \frac{3^{5}}{e^{3} * 2 * 3 * 4 * 5} = 0.1$

Answer: 0.1.

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