

IB Statistics and Probability Problem 015

A factory manufactures light bulbs. The probability that a light bulb is defective is 0.05. A random sample of 30 light bulbs is examined.

- A. Find the probability that there is at least one defective light bulb in the sample.
- B. Given that there is at least one defective light bulb in the sample, find the probability that there are at most two defective light bulbs.