



Light Bulbs



Alazar Electric Company sells light bulbs to big box stores - the big chain stores that frequently buy large numbers of bulbs in one sale. They sample their bulbs for defects routinely.

- a. A sample of 96 light bulbs consisted of 4 defective ones. Assume that today's batch of 6,000 light bulbs has the same proportion of defective bulbs as the sample. Determine the total number of defective bulbs made today.

- b. The big businesses they sell to accept no larger than a 4% rate of defective bulbs. Does today's batch meet that expectation? Explain how you made your decision.