

School Bus Inspector

Suppose you are a safety inspector who must examine 20 school buses in a lot. Unknown to you, 3 of the buses are unsafe.

- A) If you sample 5 buses, what's the probability that you will find at least one unsafe bus?
- B) If you sample 3 buses, what's the probability that you will find at least one unsafe bus?
- C) How many buses would you need to sample in order to have a 50% chance of finding all 3 unsafe buses?