Problem 1 Problem 2

Say the probability a person owns a laptop computer is $\emptyset.9$. What is the probability 2 people selected from 12 don't own a laptop?

12C2(0.1)^2(0.9)^{10}=66(0.01)(0.348)=0.230

This answer can also be found using a binomial distribution table with n=12, n=2 and n=12.

Problem 2 can also be solved via Minitab

Probability Density Function

Binomial with n = 12 and p = 0.1

x P(X = x)2 0.230128

http://primepuzzle.com/tunxis/statistics/ap.html - tct - 7/23/2010