

Unit 4 Discussion Example - Applications of Probability

Post 1: Initial Response

1) Here is my data:

	Employee has run a computer security scan in the past 60 days.	Employee has NOT run a computer security scan in the past 60 days.	Total
Employee has installed the latest patches to the operating system on their computer.	57	212	269
Employee has not installed the latest patches to the operating system on their computer.	187	44	231
Total	244	256	500

2) $P(\text{has NOT run security scan}) = 256/500 = 0.512 = 51.2\%$

$P(\text{has NOT installed latest patches}) = 231/500 = 0.462 = 46.2\%$

$P(\text{has NOT installed the latest patches but has run security scan}) = 187 / 500 = 0.374 = 37.4\%$

$P(\text{has installed the latest patches but has NOT run security scan}) = 212/500 = 0.424 = 42.4\%$

3) Based on an analysis of my sample of 500 employees, I would say that the likelihood of a computer breach is moderate. You can see that over 50% of the employees have NOT run a security scan. This is most concerning. The number one method for prevention of security breaches is to regularly perform security scan. Furthermore, you can see that a only half of the employees HAVE installed the latest patches of the operating system, which means that half HAVEN'T installed the latest patches to the operation system. This too contributes greatly towards a security breach and action should be taken to fix this!

