**Quantitative vs. Qualitative Analysis Assignments**

For the first assignment, you will need to perform a quantitative analysis on the below scenario. Please write your response in a brief APA formatted report.

**Quantitative Analysis**

You are the manager of desktop support for NASA. You are responsible for purchasing and managing all of the laptops NASA distributes to employees. There are 700 laptops currently in service. All of the laptops randomly leave the building and serve a mobile workforce. Read the following articles your CIO brought to you for consideration:

[http://www.pcworld.com/article/251318/48\_nasa\_laptops\_stolen\_in\_two\_years\_a\_case\_for\_better\_e ncryption\_practices.html](http://www.pcworld.com/article/251318/48_nasa_laptops_stolen_in_two_years_a_case_for_better_encryption_practices.html)

[https://securityboulevard.com/2018/09/7-shocking-statistics-that-prove-just-how-important-laptopsecurity-is/](https://securityboulevard.com/2018/09/7-shocking-statistics-that-prove-just-how-important-laptop-security-is/)

Compute the SLE, ARO, ALE and safeguard value based on the information in these articles for a report your CIO plans to submit as a solution. For the safeguard value, find and price an appropriate physical and software solution(s) to safeguard theft and data loss. Once you pick a product, include a link to the page for pricing and item description. Present the realized savings in your report and the benefits of the solution you choose for safeguarding the laptops. Don’t forget to include your equations for ARO, ALE, safeguard value and realized savings calculations.

700 laptops

SLE = asset value \* exposure factor = $49000

ARO= 48 laptops lost between 2009-2011 meaning 48 in 2 years and 24 in 1 year

ALE= SLE \* ARO = $1,176,000

Asset Value: 1 laptop is $49000 all 700 laptops = $34,300,000

Exposure Factor: 1 in 10 laptops are lost. 10% of total but 100% for 1

The calculations are split between 1 laptop and the total 700 laptops.

|  |  |  |
| --- | --- | --- |
|  | Single Laptop | 700 Laptops |
| Asset Value | $49000 | $34,300,000 |
| Exposure Factor | 1.0 | 0.1 |
| SLE | $49000 | $3,430,000 |
| ARO | -laptop number in years | 24 in 1 year |
| ALE | $1,176,000 | -SLE of the single laptops with number lost in the year |
| SafeGuard: DriveStrike  Combination Laptop Lock | $12.50 annual  $20 one time, replace when needed. | $8,750 annual for 700 laptops  $14,000 for all 700 laptops |
| Realized saving calculation | -single laptop | $1,153,250 |

The combination laptop lock has the benefit of being cut proof and keeps someone from just swiping the laptop. The DriveStrike plan gives features such as laptop location, and lets the laptop be remotely wiped to help stop data leaks.

Combination lock: <https://www.computersecurity.com/laptop/csp625_b.htm?linkpla=294573402136&gclid=CjwKCAjw-L-ZBhB4EiwA76YzOWiLRtQBVMq3E7fHxudeJVerBJ17g9LWkpDjLhgegXv0k3LR90swvxoCp0EQAvD_BwE>

DriveStrike: <https://drivestrike.com/home-5/pricing/>

DriveStrike Reviews: <https://www.capterra.com/p/186034/DriveStrike/reviews/>