CTF Challenges (Required)

Use the answer boxes below to document any CTF challenges you completed. Be sure to include information about **how** you solved the problem – Imagine you're writing a how-to guide for future cybersecurity students!

Trivia Challenges

👥 **Challenge 1:** Honesty is Best Policy | **Solution: Integrity**

How to Solve: In the CIA model, an example would be the checksums are used to detect high-level data errors

👥 **Challenge 2:** Lots of Jobs! | **Solution: Virginia**

How to Solve: I clicked on the Cyberseek link and used my mouse to hover on the states and found Virginia as the 51,005

👥 **Challenge 3:** Hostage | **Solution: Ransomware**

How to Solve: After researching the WannaCry attack in 2017, I found out it was a ransomware attack that contained a worm

Reconnaissance Challenges

👥 **Challenge 4:** 11,185,272 | **Solution: 12,978,189**

How to Solve: After looking at the hint and after I did my research I found that are a part of Mersenne Prime Numbers and 11,185,272 poses as the 45th on list and the 46th is 12,978,189

👥 **Challenge 5:** Read Me | **Solution: flag{h3r3syerfl@g}**

How to Solve: In the original txt file, it states it was a pdf. I uploaded the README text file to Cyberchef and dragged "Extract Files" into recipe. It shows 5 files found and I clicked the pdf version and it displayed the flag

👥 **Challenge 6:** Three Even, Two Odd | **Solution: 24835**

How to Solve: I checked the row that matched and guessed(This is the challenge that I had an issue with and viewed the youtube video in the Study Hall Playlist.

Cryptography Challenges

👥 **Challenge 7:** Shifty | **Solution: PleaseChangeMe**

How to Solve: Used the ROT13 Recipe and shifted the amount number to 29

👥 **Challenge 8:** Encoded Message | **Solution: itsgetsharderfromhere**

How to Solve: After viewing FromBase64 it showed an example with an equal sign at the end and dragged it into recipe and it displayed the message

👥 **Challenge 9:** Kasiski Who? | **Solution: HAVINGFUNCRACKINGCODES**

How to Solve: First I dragged the Rail Fence Cipher Decode and then dragged the ROT13 which gave me the word CYBER. Then pasted the message into input and entered the key

👥 **Challenge 10:** But are there eggs? | **Solution: ABRADCADABRA**

How to Solve: Since the cipher was by Francis Bacon, I dragged the Bacon Cipher Decode and changed the translation to A/B and got the answer