Step 1 (TCP)

a) Explain both the command you used in detail? What did you actually do?

NC - Netcat is a command-line utility that reads and writes data across network connections. We used nc -k -l command flag to continue listening after disconnection and used nc (host) (port) to execute a port scan. We then passed two lines of string.

b) How many frames were needed to capture those 2 lines?

4

c) How many packets were needed to capture those 2 lines?

4

d) How many packets were needed to capture the whole "process" (starting the communication, ending the communication)?

12

e) How many total bytes went over the wire? How much overhead was there (percent of bytes not in the above 2 lines)?

Total Bytes over wire:
710

f) How much overhead was there (basically the percentage of traffic that was not needed to send SER321 Rocks!)?

Total Bytes: 710
Bytes to send SER321 Rocks: 238
Bytes not involved: 710 - 238 = 472
Overhead: 66.5%