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**Homework Week 5**

**Review Questions:**

R14) a) False

b) False

c) True

d) True

e) False

f) False

g) True

R15) a) The first segment contains 20bytes of data.

b) The acknowledgement number will be 90.

R16) After typing the letter “R” three segments are sent and the sequence number of the client is 43 whereas the server sequence number will be 80. The acknowledgement field for the client will have 80.

R17) Each connection would receive a transmission rate of R/1.

R18) False

R19) The response time for TCP Splitting is 4 \* RTTFE + RTTBE + processing time is due the time for the front end server and the client each perform a handshake (4), the round trip time for data to reach the front end (RTTFE) and the time for the data to go from the front end to the back end server (RTTBE) resulting in RTTFE + RTTBE, and finally the time for the client to process the data.

**Practice Problems:**

P35) The relation between *LastByteRcvd* and *y* is one where *y* is the ACK value of *LastByteRcvd*.

P44) a) It would take 6 RTT for *cwnd* to increase from 6 MSS to 12 MSS.

b) The average is 14,64 up through 6 RTT.