1. Capture a TCP connection and identify SYN, SYN-ACK, and ACK.
   Questions:
   - Which packets are SYN, SYN-ACK, and ACK?
   - What are the source and destination ports?
   - What is the initial sequence number?

2. Find the size of TCP segments carrying application data.
   Questions:
   - What is the payload length of the first 5 data packets?
   - Identify any large payload segments.

3. Detects retransmitted segments in a capture.
   Questions:
   - Which packet(s) were retransmitted?
   - What is the RTT for the retransmission?

4. Identify duplicate ACKs in TCP.
   Questions:
   - How many duplicate ACKs were observed?
   - What sequence number do they acknowledge?

5. Understand flow control in TCP.
   Questions:
   - What is the advertised window size?
   - How does window scaling affect throughput?

6. Measure RTT of TCP segments and estimate using TCP formula.
   Questions:
   - What is the RTT of the first 5 segments?
   - Compute Estimated RTT after each ACK.

7. Detects packets received out-of-order.
   Questions:
   - Which packets arrived out-of-order?
   - How did TCP handle them?