

Name: _____

1. Define Packets
2. Define TCP
3. Choose two: Pick the two statements about packets and routing on the Internet which are true.
 - a) Packets travelling across the Internet take a standardized amount of time and so can be counted on to arrive in the order they were sent.
 - b) TCP ensures messages can be reliably transmitted across the Internet.
 - c) TCP depends on the infrastructure of the Internet to be reliable enough to ensure no packets are lost in transmission.
 - d) TCP must account for the fact that packets may not arrive at a destination computer in the intended order.
4. Which of the following is NOT true about packets?
 - a) Packets are numbered, so if they arrive out of order, the message can be reassembled.
 - b) A message sent across the Internet can always be contained in a single packet.
 - c) Packets are routed on different paths from sender to receiver.
 - d) The receiver computer must confirm to the sending computer that each packet was received.
5. In your own words, what were the primary obstacles you needed to overcome in today's challenge? How do these obstacles mirror actual problems encountered on the Internet?
6. What 3 factors do routers take into account in deciding which path a packet should take?
7. What does it mean that the TCP and router systems are scalable? How do we make the internet more reliable?