8.10 bits / 2 Mbps each link

a. (1) about $\frac{8.10}{}$ = 4(5) (2) |2 (5)

b. 800 (1) 10000 bits long packets

(1) 10000 = 5 ms (2) (0 (ms)

C. 15 ms later the first packet reach distinction 20 ms later the second

800th

(15+ 5×199)ms

Therefore it takes 4010 ms for message to reach the destination, which is much less

than the result in part (a),

11

d. once packet loss happens, the source can vetransmitted the lost packets instead of the whole message to save a large amount of time.

Furthermore, if the packet is too large, it may take too much space at vosters, and hence cause higher probability packet loss of other Internet users.