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CSC335-01

Winter 09

Homework 1 : 1, 3, 5, 8, 11, 20, 24

1. Bernie can carry 21 GB, which is 168 Gb, and can travel at 18 km/hr, which is .005km/sec. So, . 168/200 Gbps = 840 Mbps. 150x = 840, 840/150 = 5.6.

3. A fax connection building buildings on the same block is a low bandwidth, low latency connection, and a broadband satellite connection is connection with high bandwidth and high latency.

5. No. The switching delay is insignificant compared to propagation delay.

8. 5 routers, with 10 possible routes, with 4 possible speeds. 410(100ms)= 104,857.6. 104,867.5 / 3600 = 29.13 hours

11. Reducing problem to more manageable subsections, layers allow problems solved at lower layers to be ignored in higher layers, where it is a more difficult problem

20. (h\*n)-many bytes are added at each layer, total message size is M + (h\*n).

Overhead / total; ( h \* n ) / ( M + ( h \* n ) )

24. 2010’s internet size would be 6.4 billion hosts, this is low, with the expansion of VoIP, wireless broadband, IPTV, gaming consoles online, and internet-enabled handheld devices.