**W1 Quiz**

1. Packet switching, instead of circuit switching, is generally used to transfer data in the internet. T or F? = **TRUE**

2. Propagation delay depends on the size of the packet. T or F? = **FALSE** (Propagation depends on the type of medium + length)

3. Which of the following delays is significantly affected by load in the network? = **Queuing** **Delay**

* If the load is high, packets will just sit in the queue increasing queuing delay.

4. What is the correct order of delays encountered by a packet until it reaches the next-hop router?

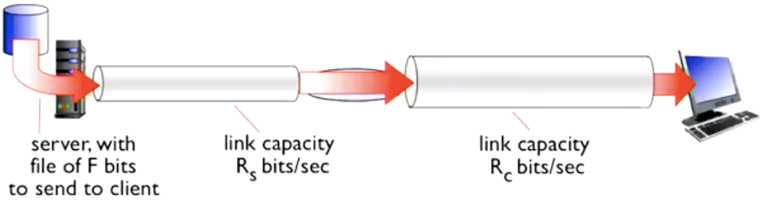
* **Processing, Queuing, Transmission, Propagation**

Packet Loss

* The Queue (buffer) has a finite capacity. A packet which arrives to a full queue will drop.
* A lost packet may be re-transmitted by a previous node, by the source system or not at all.

Throughput

* Throughput is the rate **(bits / time unit)** at which bits are transmitted between the sender / receiver.
  + **Instantaneous**: Rate at a given point in time. (not very useful – may not give the true data)
  + **Average**: Rate over a longer period of time. (more useful – more accurate)



* Two different pipes: **RS < RC** , what is the average end-end throughput?