



## COMPUTER NETWORKS

Sixth Edition

Andrew S. Tanenbaum

Nick Feamster

David Wetherall



### PROBLEM SOLUTIONS SOLUTIONS TO CHAPTER 1 PROBLEMS

1. Because the car travels at an average speed of 40 km/hour for each one-way trip,

(i) The car travels only one trip because 1.8 km is small.

$$\frac{1800 \text{ GB}}{4 \times 10^6 \text{ s}} = \frac{1}{8} \text{ GB/s} = 1 \text{ Gbps}$$

(ii) To accommodate 3.6 TB of data, the car travels at second speed. This means that it needs to fly a total of

$$\frac{3600 \text{ GB}}{4 \times 10^6 \text{ s}} = \frac{9}{10} \text{ GB/s} = \frac{9}{10} \text{ Gbps}$$

(iii) The car travels only one trip because 1.8 km is small.

2. The car travels at an average speed of 40 km/hour for each one-way trip. Because the car travels at an average speed of 40 km/hour for each one-way trip, the car travels only one trip because 1.8 km is small.

3. Secondly, wireless networks allow people to move from a wall. Secondly, although wireless networks with their wired networks, they have the advantage of being portable applications that people find meaningful. It is also true that wireless networks are not as expensive as wired networks. Finally, wireless networks can be expensive.

4. An advantage for the company is that they do not have to pay for the network. They have to pay for the network only for what they use. A disadvantage for the company is that the underlying infrastructure used by the company is difficult to obtain high performance from their network of resources available in data centers. Another disadvantage for the company is that it becomes more difficult to what it is used for.



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# Solution Manual For Computer Networks

**Russ White, Ethan Banks**



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