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## CHAPTER 1

### Introduction

#### Solutions to Review Questions and Exercises

##### Review Questions

1. The five components of a data communication system are the *sender, receiver, transmission medium, message, and protocol*.
2. The advantages of distributed processing are *security, access to distributed databases, collaborative processing, and faster problem solving*.
3. The three criteria are *performance, reliability, and security*.
4. Advantages of a multipoint over a point-to-point configuration (type of connection) include *ease of installation and low cost*.
5. Line configurations (or types of connections) are *point-to-point and multipoint*.
6. We can divide line configuration in two broad categories:
  - a. *Point-to-point: mesh, star, and ring*
  - b. *Multipoint: bus*
7. In *half-duplex transmission*, only one entity can send at a time; in a *full-duplex transmission*, both entities can send at the same time.
8. We give an advantage for each of four network topologies:
  - a. *Mesh: secure*
  - b. *Bus: easy installation*
  - c. *Star: robust*
  - d. *Ring: easy fault isolation*
9. The number of cables for each type of network is:
  - a. *Mesh:  $n(n-1)/2$*
  - b. *Star:  $n$*
  - c. *Ring:  $n-1$*
  - d. *Bus: one backbone and  $n$  drop lines*
10. The general factors are *size, distances covered by the network, structure, and ownership*.

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