# Computer Basics: Networking Basics

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## Types of networks

**Local Area Networks (LANs):** These connect devices in a limited area, like a home, school, or office. Imagine all the computers in a computer lab connected to a single printer – that's a LAN!

**Wide Area Networks (WANs):** These connect LANs across geographically dispersed locations, often using the internet as the backbone. Think of connecting all the branches of a bank across different cities – that's a WAN!

**Wireless Networks:** These networks connect devices without using cables, relying on Wi-Fi or other wireless technologies. Imagine connecting your laptop to the internet without wires – that's a wireless network!

## Network components

**Routers:** These direct traffic between networks

Switches: These connect devices within a LAN

Modems: These translate data between digital and analog formats

## Basic network protocols

- the set of rules that governs how data is transmitted across networks.

**TCP/IP:** This suite of protocols defines how data is formatted, addressed, transmitted, and received across networks. It's like the set of rules that everyone on the network follows to communicate effectively.

## The internet: How it works and how to access it

**Internet:** A vast network of interconnected computers and networks worldwide, enabling communication and resource sharing. Think of it as a giant web of information highways!

## True/False (Mark T for True and F for False)

## Multiple Choice (Select the best answer)

## Exercises

## Review Questions

## References and Bibliography