Types of Residential Internet Connections

Instructions: Read the descriptions of different types of residential internet connections below. Fill in the chart with the appropriate information.

Types of Residential Internet Connections:

1. Cable:

- Description: Uses coaxial cables to provide internet access. Offers high speeds but can be affected by network congestion.

- Availability:

- Throughput:

- Bandwidth:

2. Fiber:

- Description: Uses fiber optic cables to transmit data. Provides very high speeds and is not affected by network congestion.

- Availability:

- Throughput:

- Bandwidth:

3. DSL (Digital Subscriber Line):

- Description: Uses telephone lines to provide internet access. Speeds can vary depending on distance from the provider.

- Availability:

- Throughput:

- Bandwidth:

4. Wireless:

- Description: Uses radio waves to transmit data. Provides flexibility but can be affected by interference and signal strength.

- Availability:

- Throughput:

- Bandwidth:

5. Radio Link:

- Description: Uses microwave signals to transmit data. Offers high speeds but requires a clear line of sight between the transmitter and receiver.

- Availability:

- Throughput:

- Bandwidth:

6. Satellite:

- Description: Uses satellites to provide internet access. Offers coverage in remote areas but can be affected by weather conditions.

- Availability:

- Throughput:

- Bandwidth:

7. Cellular:

- Description: Uses cellular networks to provide internet access. Offers mobility but speeds can vary depending on network congestion.

- Availability:

- Throughput:

- Bandwidth:

Chart:

| Internet Connection | Availability | Throughput (Mbps) | Bandwidth (Mbps) |
| --- | --- | --- | --- |
| Connection 1 | 95% | 50 | 100 |
| Connection 2 | 98% | 100 | 250 |
| Connection 3 | 90% | 20 | 50 |

# Activity: Comparing Residential Internet Connections

Instructions: Work with a partner or in a small group. Use the information provided in the chart above to compare and contrast the availability, throughput, and bandwidth of each type of residential internet connection. Write your answers in the space provided.

1. Which type of connection is most widely available?

Answer:

2. Which type of connection offers the highest throughput?

Answer:

3. Which type of connection has the highest bandwidth?

Answer:

4. Which type of connection is most affected by network congestion?

Answer:

5. Which type of connection is most suitable for someone living in a remote area with limited access to other types of internet connections? Why?

Answer: