1. (**POGIL Activity 1**) How does the geographical distance between the source and destination hosts on a network affect latency?
2. What are the benefits of packet switching?
3. **(POGIL Activity 2) Missing Packets.** Consider the situation when a packet goes missing.
   1. How should the system handle this situation?
   2. Who (which layer) would handle this?
   3. What action would they have to take?
   4. What additional information would be needed in the packet in order to handle it?
4. **(POGIL Activity 2) Security/Privacy.**
   1. As the packets are being transmitted through the network, can people other than the sender and receiver read the messages?
   2. What methods can we use to protect the message?
5. What is the primary benefit of making a computing system fault-tolerant?

**Portfolio Reflection Questions**

**Make a copy** of this document in your Portfolio Assignments folder and answer these questions in the spaces below. Once complete, turn in this assignment according to the steps given by your teacher.

[6.3 Network Architecture Curriculum Page](https://runestone.academy/runestone/books/published/mobilecsp/Unit6-Communication-Through-Internet/Network-Architecture.html)

Answer the following questions:

1. (**POGIL Activity 1**) How does the geographical distance between the source and destination hosts on a network affect latency?

**Answer**

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| --- |

2. What are the benefits of packet switching?

**Answer**

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3. (**POGIL Activity 2**) **Missing Packets.** Consider the situation when a packet goes missing.

a. How should the system handle this situation?

b. Who (which layer) would handle this?

c. What action would they have to take?

d. What additional information would be needed in the packet in order to handle it?

**Answer**

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4. (**POGIL Activity 2**) **Security/Privacy.**

a. As the packets are being transmitted through the network, can people other than the sender and receiver read the messages?

b. What methods can we use to protect the message?

**Answer**

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5. What is the primary benefit of making a computing system fault-tolerant?

**Answer**

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