

# Common Connection

In the following section we will ask you questions about common connections of nodes. If you are unclear about any terms or concepts discussed, feel free to ask for clarification at any point.

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\* Indicates required question

1. Participant ID \*

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## Common Connection - Training

A **neighbor** is a node connected to another node with an edge. A common neighbor of two nodes is directly connected to both nodes.

If you are ready, please ask the conductor for the training task for the concept of **neighbors**.

After the training task was successful, the timer will start and the actual task can begin.



## Common Connection - Start

The amount of common connections in our animal contact network can play an important role in both **social structure** analysis, as well as **disease prevention**.

If two animals are seen ill at the same time, it is possible they both had contact to the same infected animal, i.e. they have a common neighbor in the respective animal network.

For the next task, you are to determine **all** common neighbors of a pair of nodes.

Reminder: an **interaction is modeled as an edge** in our network.

3. \*

*Tick all that apply.*

☐ Timer started.

## Common Connection - Task

Determine if the following animals are common neighbors of the given pair.

4. Which animals are common neighbors of **John** and **Rhett**?

*Tick all that apply.*

- ☐ Cairo
- ☐ Cohen
- ☐ Della
- ☐ Erik
- ☐ Hazel
- ☐ John
- ☐ Kade
- ☐ Kaia
- ☐ Kylo
- ☐ Naya
- ☐ Odin
- ☐ Otis
- ☐ Rhett
- ☐ Selah
- ☐ Siena
- ☐ Zoey

5. Which animals are common neighbors of **Zoey** and **Cohen**?

*Tick all that apply.*

- ☐ Cairo
- ☐ Cohen
- ☐ Della
- ☐ Erik
- ☐ Hazel
- ☐ John
- ☐ Kade
- ☐ Kaia
- ☐ Kylo
- ☐ Naya
- ☐ Odin
- ☐ Otis
- ☐ Rhett
- ☐ Selah
- ☐ Siena
- ☐ Zoey



## Final Thoughts

9. Please share any thoughts about the task here. \*

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