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| **Study 1** | | | | | | |
| **Tasks** | | **Answers** | | | | |
| **Dimension** | **Question** | **Right**  **answer** |  | | | |
| When | When do entity 1 and entity 2 participate in a same activity? | t1 | t2 | t3 | None of the above | Too difficult |
| When does entity 3 join activity 3? | t2 | t1 | t3 | None of the above | Too difficult |
| What | Does entity 4 relate to entity 5 at t1? | No | Yes |  | None of the above | Too difficult |
| How many entities participate in activity 4 at t2? | 5 | 4 | 3 | None of the above | Too difficult |
| During t1 to t2, does the relationship between entity 7 and entity 8 change? | No | Yes |  | None of the above | Too difficult |
| What happens to entity 4 from t2 to t3? | More entities interacting with it | Less entities interacting with it | No changes | None of the above | Too difficult |
| Where | How many activities at t2? | 3 | 4 | 2 | None of the above | Too difficult |
| Which activities contain same entities from t1 to t2? | Activity 2 and 5 | Activity 2 and 3 | Activity 0 and 5 | None of the above | Too difficult |
| Which activities occur in parallel with activity 1 in time? | Activity 0 and 2 | Activity 3 and 4 | Activity 6 and 8 | None of the above | Too difficult |
| Are the entities involved in activity 0 the same as those in activity 3? | No | Yes |  | None of the above | Too difficult |
| Combination | What is the changes of different entities interact with entity 1 in three time-steps? | Decrease | Increase | Constant | None of the above | Too difficult |
| Which time-step involves the largest number of entities? | Activity 7 | Activity 2 | Activity 4 | None of the above | Too difficult |

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| **Study 2** | | | | | | |
| **Tasks** | | **Answers** | | | | |
| **Dimension** | **Question** | **Right**  **answer** |  | | | |
| When | When does entity 4 disappear? | t20 | t12 | t36 | None of the above | Too difficult |
| How long does activity 10 last? | 15 | 12 | 18 | None of the above | Too difficult |
| Which of activities 11 and 12 started first? | 11 | 12 | The same time |  |  |
| What | Is entity 7 related to 9 under t40? | No | Yes |  | None of the above | Too difficult |
| What happens to entity 3 during t34 to t35? | More entities interacting with it | Less entities interacting with it | No changes | None of the above | Too difficult |
| Does the relationship between entity 5 and entity 9 change during the entire process? | No | Yes |  | None of the above | Too difficult |
| Where | Which activity does entity 12 participate in at t58? | 17 | 15 | 16 | None of the above | Too difficult |
| How many activities does entity 6 participate in? | 10 | 9 | 11 | None of the above | Too difficult |
| What are the activities in parallel with activity 18 in time? | Activity 19 and 20 | Activity 16 and 17 | Activity 17 and 19 | None of the above | Too difficult |
| Are the number of entities involved in activity 10 the same as the number involved in activity 13? | Yes | No |  | None of the above | Too difficult |
| Combination | At the beginning of activity 19, how many entities are related to entity 10? | 7 | 8 | 9 | None of the above | Too difficult |
| When entity 4 disappears, how many activities just have begun? | 3 | 1 | 2 | None of the above | Too difficult |