Study 1 – Blocks and Tasks

Block	Task Nr.	Task	Analysis task
1	1	At which X-value is the **highest** Y-value?	Find Extremum
	2	What is the Y-value at that X-value?	Retrieve Value
	3	At which X-value lies is the **fourth** **smallest** Y-value?	Find Extremum
	4	What is the Y-value difference between those two mentioned values?	Compute Derived Value
2	1	At what X lies an outlier point?	Find Anomalies
	2	What is the Y-value at that X-value?	Retrieve Value
	3	What is the **smallest** Y-value of this line?	Retrieve Value
	4	How many lines have a **smaller** Y-value than the last mentioned Y-Value?	Filter
3	1	How many lines have a Y-value **higher** than **45**?	Filter
	2	What is the Y-value range for those lines?	Determine Range
	3	What is the average Y-value for all Y-values of those lines?	Compute Derived Value
4	1	How many lines have at least **three** Y-values **smaller** than **35**?	Filter
	2	At what X-value is the **highest** Y-value of those lines?	Find Extremum
	3	What is the Y-value at that X-value?	Retrieve Value
	4	What is the average Y-value for all Y-values of all lines?	Compute Derived Value

The marked (bold and underlined) can be altered for each visualization.

Study 2 – Blocks and Tasks

Block	Task Nr.	Task	Analysis Task
1	1	Which lines have at least **3** Y-values between **5 and 10**?	Filter
	2	At what X-value is the **highest** Y-value of the selected lines?	Find Extremum
	3	What is the Y-value at that X-value?	Retrieve Value
	4	What is the average Y-value of the line the last Y-value was selected from?	Compute Derived Value
2	1	What is the descending order of all lines according to their **highest** Y-value?	Sort
	2	What is the Y-value of the **highest** line in the sorting at **24**?	Retrieve Value
	3	Of the two highest lines of the sorting, which has the smaller average Y-value?	Compare
	4	Of the two smallest lines of the sorting, what is their Y-value range?	Determine Range
3	1	At what X-value is the distance of all lines to each other the smallest?	Cluster
	2	What is the difference between the highest and the smallest Y-value at that X-value?	Compute Derived Value
	3	From the line with the **highest** Y-value at that X-value, what is its **lowest** Y-value?	Retrieve Value
	4	Lies the mentioned Y-value lower than the average Y-value of all lines?	Compare

The marked (bold and underlined) can be altered for each visualization.