1.	When using DBSCAN, how does the algorithm determine that a cluster is complete and is time to move to a different point of the data set and potentially start a new cluster?	1/1 point
	When the algorithm requires you to change the input.	
	When the algorithm forms a new cluster using the outliers.	
	When no point is left unvisited by the chain reaction.	
	When the solution converges to a single cluster.	
	Correct! We keep going until we find the entire cluster, and no point is left unvisited by this chain reaction. If we have no neighbors left, randomly try a new unvisited point to potentially start a new cluster. You can find more information in the lesson DBSCAN Part 2.	
2.	Which of the following statements correctly defines the strengths of the DBSCAN algorithm?	1/1 point
	No need to specify the number of clusters (cf. K-means), allows for noise, and can handle arbitrary- shaped clusters.	
	O well with different density, works with just one parameter, the n_clu defines itself.	
	The algorithm will find the outliers first, draw regular shapes, works faster than other algorithms.	
	The algorithm is computationally intensive, it is sensitive to outliers, and it requires few hyperparameters to be tuned.	
	Correct Correct! These 3 characteristics describe the strengths of the algorithm. You can find more information in the lesson DBSCAN Part 2.	
3.	Which of the following statements correctly defines the weaknesses of the DBSCAN algorithm?	1/1 point
	The clusters it find might not be trustworthy, it needs noisy data to work, and it can't handle subgroups.	
	It needs two parameters as input, finding appropriate values of E and n_clu can be difficult, and it does not do well with clusters of different density.	
	The algorithm will find the outliers first, it draws regular shapes, and it works faster than other algorithms.	
	The algorithm is computationally intensive, it is sensitive to outliers, and it requires too many hyperparameters to be tuned.	
	Correct Correct! These 3 characteristics describe the weaknesses of the algorithm. You can find more information in the lesson DBSCAN Part 2.	
4.	(True/false) Does complete linkage refers to the maximum pairwise distance between clusters?	1/1 point
	True	, , ,
	○ False	
	Correct Correct! By using the complete linkage measuring method we take the maximum distance value to decide which one is the smallest and then we can boost the hierarchy. You can find more information in the lesson Hierarchical Agglomerative Clustering Part 2.	
5.	Which of the following measure methods computes the inertia and pick the pair that is going to ultimately minimize the inertia value?	1/1 point
	○ Single linkage	
	Average linkage	
	Ward linkage	
	Complete linkage	
	Correct Correct! The merge of this measure method is based on inertia. You can find more information in the lesson Hierarchical Agglomerative Clustering Part 2.	