1.	(True/False) In some applications, NMF can make for more human interpretable latent features.	1 / 1 point
	True False	
	Correct Correct! You can find more information in the video Non Negative Matrix Factorization.	
2.	Which of the following set of features is the least adapted to NMF?	1 / 1 point
	Word Count of the different words present in a text.	
	Pixel color values of a an Image.	
	Spectral decomposition of an audio file.  Monthly returns of a set of stock portfolios.	
	Monthly returns of a set of stock portfolios.	
	Correct Correct! You can find more information in the video Non Negative Matrix Factorization.	
	Correct. Tou can find more information in the video from regarive matrix racionization.	
3.	(True/False) The NMF can produce different outputs depending on its initialization.	1 / 1 point
٥.		171 point
	True False	
	O Taise	
	Correct Correct! Please review the video Non Negative Matrix Factorization.	
	Correct. I lease review the video from regarive Matrix I actorization.	
4.	Which option is the sparse representation of the matrix below?	1 / 1 point
	[(1, 1, 2), (1, 2, 3), (3, 4, 1), (2, 4, 4), (4, 3, 1)]	
	[[2 0 0 0],	
	[0 3 0 0],	
	[0 0 0 1],	
	[0 4 1 0]]	
	[0 2 0 0],	
	[0 0 0 3],	
	[0 4 1 0]]	
	$ \bigcirc [[1\ 0\ 0\ 0], \\ [0\ 3\ 0\ 0], $	
	[0 2 0 0],	
	[0 0 4 2]]	

	[[0 0 0 2], [0 3 4 0], [0 0 0 0], [0 0 1 0]]  Correct Correct! You can find more information in the video Non Negative Matrix Factorization Notebook - Part 1.	
5.	In <i>Practice lab: Non-Negative Matrix Factorization</i> , why did we use "pairwise_distances" from scikit-learn?  To calculate the pairwise distance between points of the NMF encoded version of the original dataset.  To calculate the pairwise distance between data points for eliminating outliers.  To calculate the maximum pairwise distance between points in the dataset.  To calculate the pairwise distance between NMF encoded version of the original dataset and the encoded query	1 / 1 point
	<ul> <li>dataset.</li> <li>Correct         Correct! This helps us determine which existing data point is most similar (and hence the closest) to a new query point.     </li> </ul>	