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 portfelies.	
	Monthly returns of a set of stock portfolios.	
	 Correct Correct! You can find more information in the video Non Negative Matrix Factorization. 	
3.	(True/False) The NMF can produce different outputs depending on its initialization.	1/1 point
	True	
	○ False	
	Correct! Please review the video Non Negative Matrix Factorization.	
4.	Which option is the sparse representation of the matrix below?	1/1 point
4.	Which option is the sparse representation of the matrix below? $[(1,1,2),(1,2,3),(3,4,1),(2,4,4),(4,3,1)]$	1/1 point
4.		1/1 point
4.	[(1, 1, 2), (1, 2, 3), (3, 4, 1), (2, 4, 4), (4, 3, 1)]	1/1 point
4.	[(1, 1, 2), (1, 2, 3), (3, 4, 1), (2, 4, 4), (4, 3, 1)] (a) [[2 0 0 0],	1/1 point
4.	[(1, 1, 2), (1, 2, 3), (3, 4, 1), (2, 4, 4), (4, 3, 1)] (a) [[2 0 0 0], [0 3 0 0],	1/1 point
4.	[(1, 1, 2), (1, 2, 3), (3, 4, 1), (2, 4, 4), (4, 3, 1)] (1/1 point
4.	[(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]]	1/1 point
4.	[(1, 1, 2), (1, 2, 3), (3, 4, 1), (2, 4, 4), (4, 3, 1)] [[2 0 0 0], [[0 3 0 0], [[0 4 1 0]] [[[0 0 0 1],	1/1 point
4.	[(1, 1, 2), (1, 2, 3), (3, 4, 1), (2, 4, 4), (4, 3, 1)]	1/1 point
4.	[(1, 1, 2), (1, 2, 3), (3, 4, 1), (2, 4, 4), (4, 3, 1)]	1/1 point
4.	[(1, 1, 2), (1, 2, 3), (3, 4, 1), (2, 4, 4), (4, 3, 1)]	1/1 point
4.	[(1, 1, 2), (1, 2, 3), (3, 4, 1), (2, 4, 4), (4, 3, 1)]	1/1 point
4.	[(1, 1, 2), (1, 2, 3), (3, 4, 1), (2, 4, 4), (4, 3, 1)]	1/1 point
4.	[(1, 1, 2), (1, 2, 3), (3, 4, 1), (2, 4, 4), (4, 3, 1)] (i) [[2 0 0 0],	1/1 point
4.	[(1,1,2),(1,2,3),(3,4,1),(2,4,4),(4,3,1)]	1/1 point
4.	[(1, 1, 2), (1, 2, 3), (3, 4, 1), (2, 4, 4), (4, 3, 1)]	1/1 point
4.	[(1, 1, 2), (1, 2, 3), (3, 4, 1), (2, 4, 4), (4, 3, 1)] (1, 1, 2), (1, 2, 3), (3, 4, 1), (2, 4, 4), (4, 3, 1)] (1, 1, 2), (1, 2, 3), (3, 4, 1), (2, 4, 4), (4, 3, 1)] (1, 1, 2), (1, 2, 3), (3, 4, 1), (2, 4, 4), (4, 3, 1)] (1, 2, 0, 0), (1, 0, 0, 0, 1), (1, 0, 0, 0, 0, 1), (1, 0, 0, 0, 0, 1), (1, 0, 0, 0, 0, 1), (1, 0, 0, 0, 0, 0, 0, 0, 0), (1, 0, 0, 0, 0, 0, 0, 0), (1, 0, 0, 0, 0, 0, 0), (1, 0, 0, 0, 0, 0, 0), (1, 0, 0, 0, 0, 0, 0), (1, 0, 0, 0,	1/1 point
4.	[(1, 1, 2), (1, 2, 3), (3, 4, 1), (2, 4, 4), (4, 3, 1)]	1/1 point

In Practice lab: Non-Negative Matrix Factorization, why did we use "pairwise_distances" from scikit-learn?
O 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 dataset.
O To calculate the pairwise distance between points of the NMF encoded version of the original dataset.
O To calculate the pairwise distance between data points for eliminating outliers.
✓ Correct Correct! This helps us determine which existing data point is most similar (and hence the closest) to a new query point.

5.

1/1 point