**Week 3 Quiz**

1.What is a Convolution?

A technique to isolate features in images

A technique to make images smaller

A technique to filter out unwanted images

A technique to make images bigger

2.What is a Pooling?

A technique to isolate features in images

A technique to make images sharper

A technique to reduce the information in an image while maintaining features

A technique to combine pictures

3.How do Convolutions improve image recognition?

They make processing of images faster

They make the image smaller

They isolate features in images

They make the image clearer

4.After passing a 3x3 filter over a 28x28 image, how big will the output be?

28x28

26x26

31x31

25x25

5.After max pooling a 26x26 image with a 2x2 filter, how big will the output be?

28x28

56x56

26x26

13x13

6.Applying Convolutions on top of our Deep neural network will make training:

Stay the same

Faster

It depends on many factors. It might make your training faster or slower, and a poorly designed Convolutional layer may even be less efficient than a plain DNN!

Slower