✓ **Congratulations! You passed!**

Grade received 100% To pass 80% or higher

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Week 3 Quiz

Latest Submission Grade 100%

1.   How do Convolutions improve image recognition?   `1 / 1 point`

○ They make the image smaller

○ They make the image clearer

○ They make processing of images faster

● They isolate features in images

> ✓ **Correct**
> Spot on! Additionally, a properly designed convolution layer can even make training faster.

2.   What does the Pooling technique do to the images?   `1 / 1 point`

● Reduces information in them while maintaining some features

○ Makes them sharper

○ Combines them

○ Isolates features in them

> ✓ **Correct**
> Good job! Pooling reduces information without removing all of the features.

3.   True or False. If you pass a 28x28 image through a 3x3 filter the output will be 26x26   `1 / 1 point`

● True

○ False

> ✓ **Correct**
> Nailed it!

4.   After max pooling a 26x26 image with a 2x2 filter, the output will be 56x56   `1 / 1 point`

○ True

● False

> ✓ **Correct**
> Yes! The output would actually be 13x13

5.   How does using Convolutions in our Deep neural network impact training?   `1 / 1 point`

○ It makes it slower

○ It does not affect training

○ It makes it faster

◉ Its impact will depend on other factors.

✓ **Correct**
Correct! Using convolutions might make your training faster or slower, and a poorly designed Convolutional layer may even be less efficient than a plain DNN!