**Week 3 Quiz**

**LATEST SUBMISSION GRADE**

100%

1.

Question 1

What is a Convolution?

**1 / 1 point**



A technique to make images bigger



A technique to isolate features in images



A technique to make images smaller



A technique to filter out unwanted images

**Correct**

2.

Question 2

What is a Pooling?

**1 / 1 point**



A technique to make images sharper



A technique to isolate features in images



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



A technique to combine pictures

**Correct**

3.

Question 3

How do Convolutions improve image recognition?

**1 / 1 point**



They make the image smaller



They make processing of images faster



They isolate features in images



They make the image clearer

**Correct**

4.

Question 4

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

**1 / 1 point**



28x28



31x31



26x26



25x25

**Correct**

5.

Question 5

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

**1 / 1 point**



13x13



28x28



26x26



56x56

**Correct**

6.

Question 6

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

**1 / 1 point**



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!



Stay the same



Slower



Faster

**Correct**

<https://colab.research.google.com/github/lmoroney/dlaicourse/blob/master/Course%201%20-%20Part%206%20-%20Lesson%202%20-%20Notebook.ipynb>

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<https://lodev.org/cgtutor/filtering.html>

<https://github.com/lmoroney/dlaicourse/blob/master/Course%201%20-%20Part%206%20-%20Lesson%202%20-%20Notebook.ipynb>

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