

Week 3 Quiz

TOTAL POINTS 6

1. What is a Convolution?

1 point

- ☒ A technique to isolate features in images
- ☐ A technique to make images bigger
- ☐ A technique to filter out unwanted images
- ☐ A technique to make images smaller

2. What is a Pooling?

1 point

- ☐ A technique to make images sharper
- ☐ A technique to combine pictures
- ☒ A technique to reduce the information in an image while maintaining features
- ☐ A technique to isolate features in images

3. How do Convolutions improve image recognition?

1 point

- ☐ They make processing of images faster
- ☐ They make the image clearer
- ☒ They isolate features in images
- ☐ They make the image smaller

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

1 point

- ☒ 26x26
- ☐ 31x31
- ☐ 28x28
- ☐ 25x25

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

1 point

- ☐ 56x56
- ☐ 26x26
- ☐ 28x28
- ☒ 13x13

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

1 point

- ☐ 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
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