Congratulations! You passed!

Grade received 100% **Latest Submission Grade** 100% **To pass** 80% or higher

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

- ○ They make the image smaller
- ◉ They isolate features in images
- ○ They make the image clearer
- ○ They make processing of images faster

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

- ○ Isolates features in them
- ○ Makes them sharper
- ◉ Reduces information in them while maintaining some features
- ○ Combines 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
- (●) Its impact will depend on other factors.
- ( ) It does not affect training
- ( ) It makes it faster

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!