

✓ Congratulations! You passed!

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

Retake the assignment in 7h
58m

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item**

1. How do Convolutions improve image recognition?

1 / 1 point

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

- ☐ Makes them sharper
- ☒ Reduces information in them while maintaining some features
- ☐ 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

- ☐ False
- ☒ True

✓ **Correct**
Nailed it!

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

1 / 1 point

- ☒ False
- ☐ True

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

5. How does using Convolutions in our Deep neural network impact training?

1 / 1 point

- ☒ Its impact will depend on other factors.
- ☐ It makes it faster
- ☐ It makes it slower
- ☐ It does not affect training

✓ **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!