

✔ **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 clearer
- ☐ They make the image smaller
- ☐ 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
- ☐ Isolates features in them
- ☐ 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

- ☐ False
- ☒ True

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

✔ **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!