✅ **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 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`

○ ̶M̶a̶k̶e̶s̶ ̶t̶h̶e̶m̶ ̶s̶h̶a̶r̶p̶e̶r̶

○ 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`

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

✓ **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 does not affect training

○ It makes it faster

○ It makes it slower

○ It makes it slower