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Week 2 Quiz

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1. What is the resolution of o the 70,000 images from the Fashion MNIST dataset? **1 / 1 point**

- (•) 28x28 Greyscale
- ( ) 82x82 Greyscale
- ( ) 100x100 Color
- ( ) 28x28 Color

Correct
Spot on!

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2. Why are there 10 output neurons in the Neural Network used as an example for the Computer Vision Problem? **1 / 1 point**

- ( ) To make it classify 10x faster
- (•) There are 10 different labels
- ( ) Purely arbitrary
- ( ) To make it train 10x faster

Correct
Exactly! There are 10 output neurons because we have 10 classes of clothing in the dataset. These should always match.

3. What does Relu do? **1 / 1 point**

- ( ) It returns the negative of x
- ( ) For a value x, it returns 1/x
- (•) It only returns x if x is greater than zero
- ( ) It only returns x if x is less than zero

Correct
Correct! The rectifier or ReLU (Rectified Linear Unit) activation function returns x if x is greater than zero.

4. Why do you split data into training and test sets? **1 / 1 point**

- ( ) To make training quicker
- (•) To test a network with previously unseen data
- ( ) To make testing quicker
- ( ) To train a network with previously unseen data

Correct
Nailed it! Splitting the data into training and test seat allows you to test the network with unseen data.

5. True or False: The on_epoch_end function sends a logs object with lots of great information about the current state of training at the start of every epoch **1 / 1 point**

- (•) False
- ( ) True

Correct
Absolutely! The function activates at the end of every epoch

6. Why do you set the callbacks= parameter in your fit function? **1 / 1 point**

- ( ) So that the training loops performs all epochs
- ( ) Because it accelerates the training
- (•) So, on every epoch you can call back to a code function

Correct
That's right! You can have it check the metrics and stop the training.