# Week 3 Quiz

Quiz, 8 questions

**8/8 points (100%)**

## Congratulations! You passed!

Next Item

1 / 1 point

1.
If I put a dropout parameter of 0.2, how many nodes will I lose?

- [x] 20% of them

**Correct**

- [ ] 2% of them
- [ ] 20% of the untrained ones
- [ ] 2% of the untrained ones

1 / 1 point

2.
Why is transfer learning useful?

- [ ] Because I can use all of the data from the original training set
- [ ] Because I can use all of the data from the original validation set
- [x] Because I can use the features that were learned from large datasets that I may not have access to

**Correct**

- [ ] Because I can use the validation metadata from large datasets that I may not have access to

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3.
How did you lock or freeze a layer from retraining?

- tf.freeze(layer)
- tf.layer.frozen = true
- tf.layer.locked = true
- layer.trainable = false

**Correct**

1 / 1 point

4.
How do you change the number of classes the model can classify when using transfer learning? (i.e. the original model handled 1000 classes, but yours handles just 2)

- Ignore all the classes above yours (i.e. Numbers 2 onwards if I'm just classing 2)
- Use all classes but set their weights to 0
- When you add your DNN at the bottom of the network, you specify your output layer with the number of classes you want

**Correct**

- Use dropouts to eliminate the unwanted classes

1 / 1 point

5.
Can you use Image Augmentation with Transfer Learning Models?

- No, because you are using pre-set features

Yes, because you are adding new layers at the bottom of the network, and you can use image augmentation when training these

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**Correct**

1 / 1 point

6.
Why do dropouts help avoid overfitting?

Because neighbor neurons can have similar weights, and thus can skew the final training

**Correct**

Having less neurons speeds up training

1 / 1 point

7.
What would the symptom of a Dropout rate being set too high?

The network would lose specialization to the effect that it would be inefficient or ineffective at learning, driving accuracy down

**Correct**

Training time would increase due to the extra calculations being required for higher dropout

1 / 1 point

8.
Which is the correct line of code for adding Dropout of 20% of neurons using TensorFlow

tf.keras.layers.Dropout(20)

tf.keras.layers.DropoutNeurons(20),

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tf.keras.layers.Dropout(0.2),

**Correct**

tf.keras.layers.DropoutNeurons(0.2),