1.	If you have 10,000,000 examples, how would you split the train/dev/test set?	1 / 1 point
	60% train . 20% dev . 20% test	
	98% train . 1% dev . 1% test	
	33% train . 33% dev . 33% test	
	✓ Correct	
2.	The dev and test set should:	1 / 1 point
	Have the same number of examples	
	Come from different distributions	
	Be identical to each other (same (x,y) pairs)	
	Come from the same distribution	
	✓ Correct	
3.	If your Neural Network model seems to have high variance, what of the following would be promising things to try?	1 / 1 point
	Make the Neural Network deeper	
	Add regularization	

	✓ Correct	
	Get more training data	
	✓ Correct	
	Get more test data	
	☐ Increase the number of units in each hidden layer	
4.	You are working on an automated check-out kiosk for a supermarket, and are building a classifier for apples, bananas and oranges. Suppose your classifier obtains a training set error of 0.5%, and a dev set error of 7%. Which of the following are promising things to try to improve your classifier? (Check all that apply.)	1 / 1 point
	✓ Increase the regularization parameter lambda	
	✓ Correct	
	Decrease the regularization parameter lambda	
	Get more training data	
	✓ Correct	
	Use a bigger neural network	

With the inverted dropout technique, at test time:

1 / 1 point

	You apply dropout (randomly eliminating units) but keep the 1/keep_prob factor in the calculations used in training.	
	You do not apply dropout (do not randomly eliminate units) and do not keep the 1/keep_prob factor in the calculations used in training	
	You apply dropout (randomly eliminating units) and do not keep the 1/keep_prob factor in the calculations used in training	
	You do not apply dropout (do not randomly eliminate units), but keep the 1/keep_prob factor in the calculations used in training.	
	✓ Correct	
8.	Increasing the parameter keep_prob from (say) 0.5 to 0.6 will likely cause the following: (Check the two that apply)	1 / 1 point
	☐ Increasing the regularization effect	
	Reducing the regularization effect	
	✓ Correct	
	Causing the neural network to end up with a higher training set error	
	✓ Causing the neural network to end up with a lower training set error	
	✓ Correct	

9.	Which of these techniques are useful for reducing variance (reducing overfitting)? (Check all that apply.)	1 / 1 point
	✓ Dropout	
	✓ Correct	
	Data augmentation	
	✓ Correct	
	Xavier initialization	
	✓ L2 regularization	
	✓ Correct	
	Exploding gradient	
	Gradient Checking	
	■ Vanishing gradient	
10.	Why do we normalize the inputs $x$ ?	1 / 1 point
	Normalization is another word for regularizationIt helps to reduce variance	

- It makes it easier to visualize the data
- It makes the cost function faster to optimize

✓ Correct