1.	If you have 10,000,000 examples, how would you split the train/dev/test set?
	<ul><li>98% train . 1% dev . 1% test</li></ul>
	33% train . 33% dev . 33% test
	O 60% train . 20% dev . 20% test
2.	The dev and test set should:
	Come from the same distribution
	Ome from different distributions
	Be identical to each other (same (x,y) pairs)
	Have the same number of examples

3.	If your Neural Network model seems to have high variance, what of the following would be promising things to try?	
	Get more training data	
	✓ Add regularization	
	Make the Neural Network deeper	
	Increase the number of units in each hidden layer	
	Get more test data	
4.	4. You are working on an automated check-out kiosk for a supermarket, and are building a classifier for appl 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.)	
	✓ Increase the regularization parameter lambda	
	Decrease the regularization parameter lambda	
	Get more training data	
	Use a bigger neural network	

5. What is weight decay?	
	<ul> <li>A regularization technique (such as L2 regularization) that results in gradient descent shrinking the weights on every iteration.</li> </ul>
	Gradual corruption of the weights in the neural network if it is trained on noisy data.
	A technique to avoid vanishing gradient by imposing a ceiling on the values of the weights.
	The process of gradually decreasing the learning rate during training.
6.	. What happens when you increase the regularization hyperparameter lambda?
	Weights are pushed toward becoming smaller (closer to 0)
	Weights are pushed toward becoming bigger (further from 0)
	Oubling lambda should roughly result in doubling the weights
	Gradient descent taking bigger steps with each iteration (proportional to lambda)
7.	With the inverted dropout technique, at test time:
	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.
8.	Increasing the parameter keep_prob from (say) 0.5 to 0.6 will likely cause the following: (Check the two that apply)
	☐ Increasing the regularization effect
	Reducing the regularization effect
	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

9.	Which of these techniques are useful for reducing variance (reducing overfitting)? (Check all that apply.)
	✓ L2 regularization
	Xavier initialization
	Exploding gradient
	Gradient Checking
	☐ Vanishing gradient
	✓ Dropout
	✓ Data augmentation
10.	Why do we normalize the inputs $x$ ?
	It makes the parameter initialization faster
	It makes it easier to visualize the data
	Normalization is another word for regularizationIt helps to reduce variance
	It makes the cost function faster to optimize