**Lesson Summary Assessment**

1. The Perceptron model uses \_\_\_\_\_\_\_\_\_ to compare against a threshold value.
	1. A weighted sum
	2. A weighted average
	3. The median
	4. The mode
2. If the value of input $x\_{1} $is more important than the input of$ x\_{2} $ ,its weight will be \_\_\_\_\_\_ compared to the weight of $x\_{2}. $
3. Linear Separable means:
	1. A set of points can be modeled using a linear function.
	2. A line cannot separate two sets of points
	3. Two sets of points can be separated by a single line
	4. It takes two separate lines to separate groups of points
4. In this picture below, the threshold value is = \_\_\_\_\_.



1. Is the function illustrated in the picture above linear separable?
2. In the Perceptron model, what controls the amount of adjustment made between trials?

a. The bias

b. The learning rate

c. The error

d. The weights