Name_____**ID** _____

Activity 1-1 (9 Aug 2018)

1. Let propositions *P* = "you go to see the movie Harry Potter," *Q* = "the movie Harry Potter is good," and *R* = "you have a good time.". Express each sentence below as a propositional form using variables *P*, *Q*, and *R*.

1.1 You do not go to see the movie Harry Potter.

1.2 If Harry Potter is good and you go to see it, you will have a good time.

1.3 You have a good time, only if you do not go to see the movie Harry Potter.

1.4 If you go to see the movie Harry Potter and do not have a good time, the movie Harry Potter must be bad.

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2. For each of these sentences, define appropriate propositional variables representing each proposition inside the statement and translate the statement into a propositional form.

Statement and compounded proposition	Define propositional variables here
2.1 It is raining or it is very hot.	
2.2 If you like Thai food, you will enjoy the trip to the Night Market.	
2.3 You can finish a marathon, only if you practice a lot and have strong will to fight.	
2.4 You either learn to understand the customer or you fail to make a good product.	