		Preference for Location		
		Hotel	Rec Center	Total
Preference for Band	Нір-Нор	73	80	
	Classic Rock	55	92	
Total				

Suppose you pick a student at random from this class. Find each of the following probabilities.

- a. P(prefers hotel)
- b. P(prefers hip-hop band)
- c. P(prefers hotel and prefers hip-hop band)
- d. P(prefers hotel or prefers hip-hop)
- e. P(prefers hotel|prefers hip hop band)
- f. P(prefers hip hop band|prefers hotel)

Recall that events A and B are independent if knowing whether one
of the events occurs does not change the probability that the other
event occurs.

Conditional Prob

a. Using the data from problem 1, suppose you pick a student at random. Find P(wearing sneakers is a girl). How does this compare to P(wearing sneakers)?

P(5nakers | G:11) = 13

P(Sneckers)=30

b. Are the events wearing sneakers and is a girl independent? Why or why not?

No, added condition of Girl probability Changed!