ECO239 Quiz 2 (Nov. 22, 2018)	ID		; Name	2
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Question 1:The following table shows the relationship between the price of a loaf of bread and the corresponding quantity demanded. Derive correlation coefficient and comment on the found value.

X (Price)	Y (Quantity Demanded)		
1	100		
2	80		
3	50		
4	20		

Question 2: Consider a standard deck of cards, 13 cards (1^{\sim} 10, J, Q, K) for 4 suits (clover, spade, heart and diamond). Set Event A as Red suit and Event B and odd numbers (consider as J=11, Q=12, K=13).

(a) Complete the probability table, including joint and marginal probabilities

- (b) Show if A and B are mutually exclusive.
- (c) Show if A and B are collectively exhaustive.

