Categorical Data

Name: _____

Hour: _____

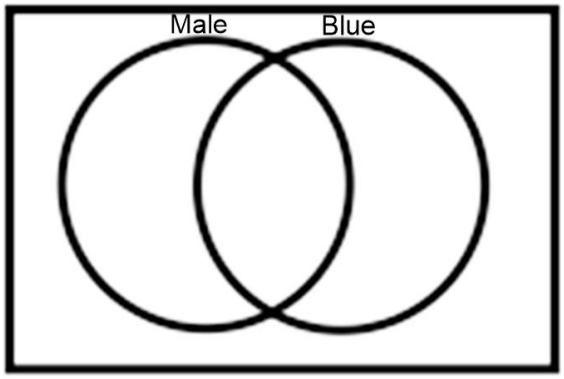
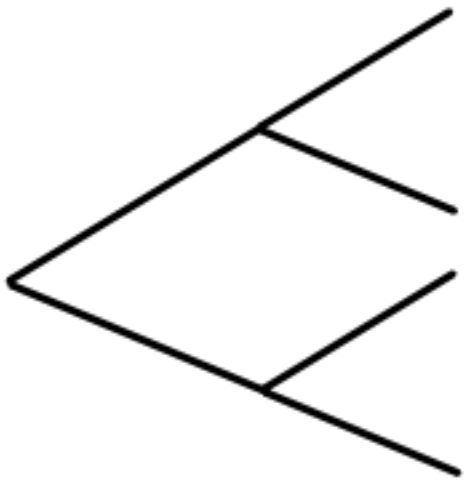
Part I

What's your favorite color?

When asked this question, the most popular color named was blue.

Symbols	2-way Table
Key: Male = M Female = F Blue = B Not Blue = N Sample size = 200 P(B) = 84/200 P(M) = 64/200 P(F|B) = 48/84 P(B|F) = P(M∩B) = P(M∪B) =	

	Blue	Not Blue	Total
Male			
Female			
Total			

Venn Diagram	Tree Diagram
	

Part II

Are you a lefty or a righty?

Symbols

Key:
Male = M Female = F
Lefty = L Righty = R

Sample size =

P(L) =

P(M) =

P(F) =

P(L|F) =

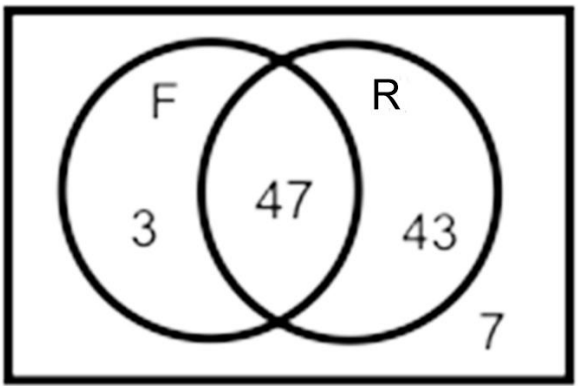
P(L|M) =

In this sample are there equal proportions of males and females who are left handed? Explain.

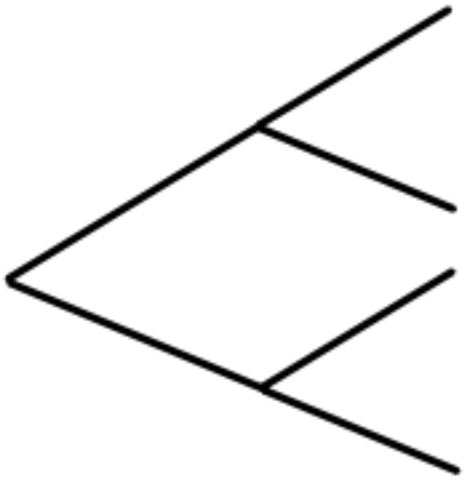
2-way Table

	Lefty	Righty	Total
Male			
Female			
Total			

Venn Diagram



Tree Diagram



Part III

Do you eat breakfast or not?

Symbols	2-way Table
Key: Male = M Female = F Eats Breakfast = E Doesn't Eat Breakfast = D Sample size = P(E) = P(E|M) = P(E∩M) P(E|F) = P(E∩F) =	

	Eats	Doesn't	Total
Male			
Female			
Total			600

Venn Diagram	Tree Diagram