Name: Date:	Business Data Analysis 201-316-VA
In Class Exercise $#12$: Sampling D	Distribution
1. There's A Saint for Everything St Apollonia is the patron saint of dentists and St Réne Goupil is the patron saint of arms dealers, while St Godelieve is the patron saint of arms dealers, while St Godelieve is the patron saint of arms dealers, and paradoxically, throat of And there's St. Nicholas (Santa Claus) who according to legend, resurred and pickled in a barrel to be served as bacon. He is the patron saint of and in somewhat poor taste, barrel makers as well. During the Christmas holiday, it is known that the average amount of makers is normally distributed with a mean of \$200 with a standard deviation	atron saint of abusive spouses, difficult diseases. ected three little boys who were cut up f children, sailors, murderers, thieves, money spent on gifts for small children
(a) What is the probability that a randomly selected individual will have gifts for small children?	ve spent more than \$185 on Christmas
(b) Suppose that your are standing in line with your purchases, and waiting to pay. What is the probability that mean amount spent of people?	
(c) In another line, there are nine people waiting to pay for their put the mean amount spent on gifts will exceed \$185 for this group of	
, o man a same group or	

(d) Compare the answers obtained in part (b) and (c). Which probability is is greater? Why would that to be the case?