8 - HW#4 The Titanic

Name:	Per:

On April 15, 1912, the Titanic struck an iceberg and rapidly sank with only 710 of her 2,204 passengers and crew surviving. Data on survival of passengers are summarized in the table below:

	Survived	Did not survive	Total
First class passengers	201	123	324
Second class passengers	118	166	284
Third class passengers	181	528	709
Total passengers	500	817	1317

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1. If one of	f the passengers is randomly selected,	calculate the fo	llowing probabilities:	
a.	This passenger was in first class?			
b.	This passenger survived?			
c.	This passenger was in first class and s	urvived?		
d.	If the passenger is randomly selected f	rom first class,	what is the probability th	at they survived
	If the passenger is randomly selected for were in first class?	rom those who	survived, what is the pro	bbability that the
	If the passenger is randomly selected for	rom those who	survived, what is the pro	bbability that the

were in third class?

g. Why do you think the probability from part d is larger than part c?