	0-0.5 million	0.5-20 million	>20 million	Total
0-15 births per 1000	26	36	17	
15-25 births	26	28	20	
>25 births	8	48	17	
Total				

a) If you choose one country at random, find P(>20 million).

b) If you choose one country at random, find P(>20 million | 0-15 births).

c) Are the sets {0-0.5 million} and {>25 births} independent? Show the probabilities that show why/why not.

d) If you choose four without replacement, find P(all are >20 million).

e) If you take out four without replacement, find P(at least one is >20 million).

e) Test independence of row and column variables using the chi squared test.

19. Children who play musical instruments do better in school. Fred says the parent's income is a possible confounding factor. Explain what this means.