Conditional Probability WS   Name _____

Write answers as decimals rounded to the nearest hundredth.

Jerrod collected data on 100 randomly selected students, and summarized the results in a table. Complete the table to indicate totals.

		Owns an MP3 player		
		Yes	**No**	**Total**
Owns a Smart Phone	**Yes**	28	12	
	No	34	26	
	Total			

From the data, a student is selected randomly. Find the probability that …

a. … the student owns an MP3 player and a smart phone.

b. … the student owns a smart phone given that he/she owns an MP3 player.

c. … the students owns an MP3 player given that he/she owns a smart phone.

d. … the student does not own a smart phone.

e. … the student owns a smart phone or an MP3 player.

f. … the student owns a smart phone or an MP3 player, but not both.

g. … the student owns a smart phone and does not own an MP3 player.

h. … the student owns a smart phone or does not own an MP3 player.

i. … the student does not own a smart phone given that he/she does not own an MP3 player.

j. … the students owns neither device.