Statistical Reasoning
Two Way Frequency Table Practice

Name:

Felipe surveyed students at his school. He found that 78 students own a cell phone, and 57 of those students own an MP3 player. There are 13 students that do not own a cell phone, but own an MP3 player. Nine students do not own either device. Construct a two-way table summarizing the data. Then answer the following questions.

	cell phone	no cul phone	total
mp3 player	57	13	70
no mp3 player	21	91	30
total	78	22	100

1) How many students own a cell phone?

2) What is the probability that a student owns a cell phone and a MP3 player?

3) What is the probability that a student owns a cell phone or a MP3 player?

4) What is the probability that a student does not own a MP3 player?

$$\frac{30}{100} = 0.3$$
 or 0.30

Create a two way frequency table to represent the following:

As each person entered the theater, Aaron counted how many of the 105 people had popcorn, and how many had a drink. He found that out of 84 people that had popcorn, only 10 did not have a drink. Six people walked in without popcorn or a drink.

drink	no drink	total
74	10	84
15	6	21
89	14	105
	74 15	74 10 15 6