Name: _____ Date: _____ HW #15 Two Way
                                                                          Tables

Use the two way table below to answer the questions.

1. Complete the table

	Boys	Girls	Total
Play Daily	45	12	57
Do Not Play Daily	5	38	43
Total	50	50	100

2. What percent of those surveyed were boys that played video games daily? Show your work.

$$\frac{45}{100} \times 100 = 45\%$$

3. What percent of girls do not play video games daily? Show your work.

$$\frac{38}{50} \times 100 = 76\%$$

4. Use the table to explain if you believe that there is or is not a relationship between gender and playing video games daily.

of those that play a video game daily, 78.95% are boys. of those that do not play, 88.37% are girls. $(\frac{45}{57} \times 100)$ $(38/43 \times 100)$ Both are much higher than 50% so yes I believe there is a relationship

Michael did a survey of his classmates about whether or not they liked baseball and whether they liked hot dogs. His teacher told him to make a two way table to show the class. He lost the paper where he recorded their answers, but remembers the following information:
   1) He surveyed 25 classmates
   2) 12 people had answered yes to both questions
   3) 2 people had answered no to both questions
   4) There were a total of 5 people that did not like baseball.

5. Make Michael's table

		Like Baseball		
		Yes	No	Total
Like Hot Dogs	Yes	12	3	15
	No	8	2	10
	Total	20	5	25

6. What percent of Michael's classmates liked baseball, but did not like hot dogs?

$$\frac{8}{25} \times 100 = 32\%$$

7. What percent of classmates who liked hot dogs did not like baseball?

$$\frac{3}{15} \times 100 = 20\%$$