

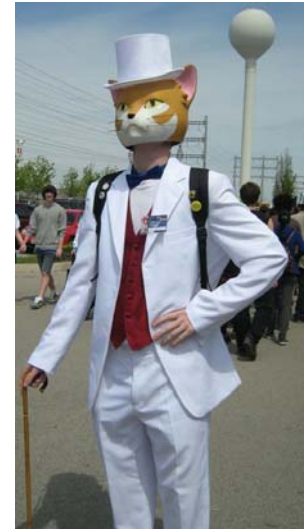
Name: \_\_\_\_\_

Hw ST-7

Two-Way Tables

1) There are 150 children at summer camp and 71 signed up for swimming. There were a total of 62 children that signed up for canoeing and 28 of them also signed up for swimming. Construct a two-way table summarizing the data.

	Canoeing	No Canoeing	Total
Swimming			
No Swimming			
Total			



Find and interpret the percentages of children in the survey by row. Copy your answers from above and then calculate the percentage for each.

	Canoeing	No Canoeing	Total
Swimming			
No Swimming			

Interpret two meanings based on the percentages that you calculated above. What does the percentage tell you about the data? List two below.

a.

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b.

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## 2) RELATIVE FREQUENCY IS PERCENTAGE AS A DECIMAL

The two-way table below shows the number of hours students studied and whether they studied independently or with a study group.

What is the relative frequency of students that studied independently for more than 2 hours to the total number of students that studied independently?

	Studied Less Than 2 Hours	Studied More Than 2 Hours
Studied Independently	12	4
Studied with a Study Group	8	11

- (A) 0.4                                      (C) 0.25  
(B) 0.33                                      (D) 0.11

## 3) RELATIVE FREQUENCY IS PERCENTAGE AS A DECIMAL

Megan surveyed the 8<sup>th</sup> grade to find which school activities they attended last weekend. The results are shown in the two-way table.

	Attended the School Play	Did Not Attend the School Play	Total
Attended the Basketball Game	55	63	118
Did Not Attend the Basketball Game	88	15	103
Total	143	78	221

What is the relative frequency of students that attended the basketball game and the school play to the total number of students that attended the school play?

- (A) 0.25                                      (C) 0.47  
(B) 0.38                                      (D) 0.71

Use the table above to answer the following question.

4) Which of the following is a valid conclusion about the data?

- Of the students that attended the basketball game, more than half of them also attended the school play.
- More than half of the students that were surveyed attended the school play and did not attend the basketball game.
- Students that attended the school play were more likely to not attend the basketball game.
- Most students did not attend either event.