

Name _____ Date _____

Oh! Switch the Station!

Drawing Conclusions from Data

Problem Set

A student committee at South Park High School must decide on a location for this year's senior picnic. They take a survey of three senior classes to help make their decision. The data from the survey is shown in the table. For each question, create a distribution to support your answer.

Class	Location
Class A	Beach
Class A	Beach
Class A	Water Park
Class B	Water Park
Class B	Beach
Class B	Beach
Class B	Amusement Park
Class C	Amusement Park
Class C	Amusement Park
Class A	Beach
Class A	Beach
Class A	Beach
Class C	Amusement Park
Class C	Amusement Park
Class B	Water Park
Class B	Amusement Park
Class A	Amusement Park
Class B	Water Park
Class C	Water Park
Class B	Water Park
Class C	Amusement Park

Class	Location
Class C	Amusement Park
Class B	Water Park
Class B	Water Park
Class C	Amusement Park
Class A	Beach
Class A	Water Park
Class B	Water Park
Class B	Water Park
Class B	Beach
Class C	Beach
Class A	Beach
Class A	Beach
Class C	Beach
Class B	Water Park
Class C	Water Park
Class B	Beach
Class C	Beach
Class B	Water Park
Class C	Water Park
Class A	Amusement Park
Class A	Beach

1. Which location is most popular among all three classes?

Frequency marginal distribution table:

Favorite Senior Picnic Location of Students

		Beach	Amusement Park	Water Park	Total
Class	Class A	### /// 9	/// 2	// 2	13
	Class B	//// 4	// 2	### ## 10	16
	Class C	/// 3	### // 7	/// 3	13
	Total	16	11	15	42

The beach is the most popular location among all three classes.

2. Which location is least popular among all three classes?

10

Name _____ Date _____

3. Which location is most preferred by Class B?

10

4. Which location is least preferred in Class A?

5. Which class had the highest percentage of students prefer the water park as the location for the senior picnic?

10

6. Which class least preferred the amusement park as the location for the senior picnic?

Name _____ Date _____

7. Which class had the most students in agreement as to their preferred location within the class?

10

8. Which class made up the smallest percentage of the students who supported the most popular overall location, the beach?

9. Which class made up the highest percentage of the students who supported the least popular overall location, the amusement park?

10

10. Which class made up the highest percentage of the students who supported the water park as their favorite senior picnic location?
