

Name: _____

Date: _____

Compound Probabilities

Instructions:

As a class, fill out the following 2-way frequency table about ice cream preferences. Then, answer the questions below.

		Preferred	Ice Cream	Flavor	
Student Gender		Vanilla	Chocolate	Rocky Road	TOTAL
	Male				
	Female				
	TOTAL				

- Show your work for each part of this question. What is the probability of randomly selecting:
 - A female?
 - A student who is male and prefers Rocky Road?
 - A student who is male and likes vanilla or a student who is female and prefers chocolate?
- For each part of this question, choose which scenario will have a higher probability. Support your decision by including calculations.
 - A student that prefers vanilla, chocolate or rocky road?
 - A female student that prefers vanilla or a female student that prefers rocky road?
 - A female student that prefers chocolate or a male student that prefers rocky road?