

## Project Math TRACK Rigor And Content Knowledge PRESS — PBL Lesson Plan Template

Pre-Lesson								
	Grade Level: 12th	de Level: 12th   Teacher Name/School:Takaingofa Pasai						
		Lee Central High School						
	Standards	PS.SPCR.4 Construct and interpret two-way frequency tables of data when						
	Addressed:	two categories are associated with each object being classified. Use the						
		two-way tables as a sample space to decide if events are independent and to approximate conditional probabilities.						
		<ul> <li>use the two-way table as a sample space to decide if events are</li> </ul>						
		independent or dependent.						
		<ul> <li>use the two-way table as a sample space to approximate conditional</li> </ul>						
		probabilities/proportions.						
g	<b>Critical Questions</b>							
	to Consider:	□ Is the problem relevant to content/standard(s) being taught? yes						
		□Will the problem incorporate multiple instructional and thinking processes?						
		yes						
		☐ Can students solve this problem in multiple ways? yes						
		☐ Is the problem high-interest? Will it command student attention? Yes						
		☐ Will students develop their own ideas and reasoning skills? Yes						

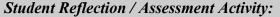
## *Scenario*: (no more than 500 words)

The table below shows the listing of years of service for employees at Verizon wireless.

YEARS	0-4	5-9	10-14	14+	TOTALS
MALES	12	6	17	21	56
FEMALES	8	9	13	14	44
TOTALS	20	15	30	35	100

## Instructional Activities: (List in numeric order).

- 1. What is the probability of randomly selecting a female employee?
- 2. Given that the employee is male, what is the probability that they have less than 4 years of experience?
- 3. Given that the employee has between 10 and 14 years of experience, what is the probability that the employee is female?
- 4. Given that the employee has more than 14 years of experience, what is the probability that the employee is male.
- 5. What is the probability of randomly selecting an employee with less than 14 years of experience given that they are female?



Student Reflection / Assessment Activity:

Students will consider a real world scenario similar to the one in the assignment and come up with their own problem and solution.