

Topic/Aim: Probability Mini-project!

Lesson: Complete the activity below. Be sure to read all directions first!

Join the 11:00 AM Google Hangout to review any questions with Katherine.

Remember to submit in Google Classroom when finished.

Homework: *none*

ACTIVITY: It's [Connect 4!](#) [20 second video clip linked if needed]

OBJECTIVE: Complete any four boxes in a row [horizontally, vertically, or diagonally](#).

DIRECTIONS:

1. Break out your self-created two-way frequency table from Day 4, (HW 4/6 in Google Classroom). There is a space to copy it in the template on next page.
2. Choose any 4 boxes that connect (horizontally, vertically, or diagonally) and complete the prompt in each box. There is space to respond to prompts *below* the game board.
 - a. Rule: *Everything* must be related to your two-way-frequency table and it's data. That means ALL responses, questions, diagrams, explanations, etc. (*For example*: If you create a question, I should need to be looking at your table in order to answer it.)
 - b. If a box has a [link](#), it is *optional* for you to use that resource.
 - c. If you would like to, you can insert photos or screenshots of work as needed.
3. **Highlight** the 4 boxes / prompts you selected.
4. On the last page, identify which boxes/prompts you selected by writing the letter from each box in the column labeled *Box Letter*. Your corresponding response to each goes in the space to the right of that letter.
5. Submit in Google Classroom

OPTIONAL TOOLS (*for your reference*):

[Student reference I](#), Helpful website

[Student reference II](#), Notes from Day 7

Your Two-Way Frequency Table from Day 4 [HW 4/6 in Google Classroom]

[Insert here]

YOUR TASK: It's Connect 4! (vertically, horizontally, or diagonally)

Based on your two-way frequency table and it's data...

<p>A. Create a short response Regents question! <i>(make it a real good one and we'll even submit it to the Board of Regents for possible use!)</i></p>	<p>B. Create a question about independent events.</p>	<p>C. Make a prediction and explain how your data/two-way table supports it using probability.</p>	<p>D. Represent your data (or parts of it) in a new way using a Venn diagram; Be sure to identify the parts!</p>
<p>E. Create a multiple choice problem that includes the phrase 'randomly selected'</p>	<p>F. Create 2 questions involving the probability of an event occurring.</p>	<p>G. Create a probability problem that involves percentages.</p>	<p>H. Write a question related to unions.</p>
<p>I. Create a question involving complements.</p>	<p>J. Write any 2 questions to go with your two-way frequency table.</p>	<p>K. Create a question about conditional probability.</p>	<p>L. Write 2 questions related to intersections.</p>
<p>M. Create a question related to mutual exclusivity.</p>	<p>N. BUY 1, GET 1! Answer each of your self-made questions to be able to cross off this box and any other box of your choice!</p>	<p>O. Create 2 multiple choice questions.</p>	<p>P. Write a question related to type(s) of probability. <i>(theoretical, empirical),</i></p>

BOX LETTER	YOUR RESPONSE

***If you chose Box N, please list the other letter that you selected with it.*

****Did you remember to highlight your 4 boxes in the board to make sure they connect?*