

# Statistics CP/Honors

**Mrs. Pittsley/ Miss Girouard**  
**Week of April 13 - 17th, 2020**

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- This week we will be reviewing the concepts of dependent probability and the multiplication rule as well as combinations/permutations and how to use online calculators to find them if we don't have a graphing calculator at home. **If anyone cannot access the included websites, please reach out ASAP and we will provide another route for you to review these same concepts.**
  - We worked hard to ensure that the Learning Plan provides accessibility for all learners. We hope that you see that there are options to engage learners at all levels. *These activities are not intended to replace the normal school day.* There is now an expectation for students to turn these documents in to your specific educators. We want you to take time to enjoy family, be safe, stay healthy and find time within this week to engage in learning opportunities. Feel free to create a schedule that works for you and your family. We strongly encourage each student to participate in approximately two hours a day for all subjects combined. We want your brain working and challenging yourself, while staying safe and having fun.
  - **You must submit your work by the end of the day on Friday, April 17th through google classroom. For the Khan Academy videos and problems, take screenshots OR write down your answers and send pics over google classroom. For the Break Out Activity, by submitting the form, you'll be submitting your answers to us.**
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- **Activity #1: Getting Access to online Graph Calc Desmos**

- If you don't have a graphing calculator at home, WATCH THIS so you can use Desmos online to help you out

**Time Frame: 5 - 7 minutes**

- Watch this short video on how to get to Desmos on your computer or phone, and how to enter Combinations & Permutation problems using it.

<https://www.youtube.com/watch?v=ElqJ7MKlh18>

- **Activity #2: Reviewing Permutations & Combinations**

**Time Frame: 20 - 25 minutes**

- Watch this video to remind yourselves of the difference between permutations and combinations:

<https://www.khanacademy.org/math/statistics-probability/counting-permutations-and-combinations/combinations-lib/v/combinator-formula>

- If you have your own graphing calculator at home, watch this video to review how we used them to find permutations and combinations:

<https://www.youtube.com/watch?v=0ZAKNklhwhY>

- **Try these 4 problems** to review Combinations using your calculator or Desmos- take a screenshot or phone pic of your work to upload:
  - [https://www.khanacademy.org/math/statistics-probability/counting-permutations-and-combinations/combinations-lib/e/combinations\\_1](https://www.khanacademy.org/math/statistics-probability/counting-permutations-and-combinations/combinations-lib/e/combinations_1)

- **Activity #3: Review of Dependent Probability**

**Time Frame: 15 - 20 minutes**

- Watch this video to review the concept of dependent probability:  
<https://www.khanacademy.org/math/ap-statistics/probability-ap/probability-multiplication-rule/v/introduction-to-dependent-probability>
- **Try these problems to practice** - take a screenshot or phone pic of your work to upload:  
[https://www.khanacademy.org/math/ap-statistics/probability-ap/probability-multiplication-rule/e/dependent\\_probability](https://www.khanacademy.org/math/ap-statistics/probability-ap/probability-multiplication-rule/e/dependent_probability)
- The general multiplication rule of probability stems from the above, so take a look at this. You'll need this review for Activity #4 below:  
<https://www.khanacademy.org/math/ap-statistics/probability-ap/probability-multiplication-rule/a/general-multiplication-rule>

- **Activity#4: “Superman is Retiring!” Probability Break Out Activity**

**Time Frame: 45 - 60 minutes**

- 1) Open this link. This is the google form that allows you to submit your responses at the end - **make sure you select the right teacher here!**
  - ★ [Ms. Girouard's Per 3 Stats CP Class Form](#)
  - ★ [All Mrs. Pittsley's Stats CP/Honors Classes Form](#)
- 2) Also open this link to **get all of your clues**:
  - ★ [Link to Clues Page](#)
- 3) You may **want to use this video** I made (don't laugh at me LOL) to help you navigate through the clues:
  - ★ [Video on how to navigate clues page](#)
- 4) There are some tricky ones - so reach out through Google Classroom or Remind for hints and we'd be happy to provide them!! Have fun!
- 5) Make sure you **submit your form** when you're done so we can provide feedback on your results!