



**Christopher Columbus High School**  
**2026 Summer Assignment Mathematics**  
Students entering Honors Statistics  
**Due Date: First day of class**



*Welcome to Honors Statistics! This course is built around four main topics: exploring data, planning a study, probability as it relates to distributions of data, and inferential reasoning.*

**Brief Description:**

**Part I**

- Download worksheet to notability
- Watch video 1.1: click [here](#) to watch
- Watch video 1.2: click [here](#) to watch
- Watch video 1.3: click [here](#) to watch
- Watch Videos Complete the assignment while watching the required videos and take notes

**Part II**

- The complete part II

**Resources needed:** TI-Nspire Calculator, Notability

**Approximate time commitment during the summer:**

~2 hours (make sure to thoroughly understand the concepts as you will be tested on the material)

**Questions over the summer:** Please contact me: [maria.romero@columbushs.com](mailto:maria.romero@columbushs.com)

**Grading and mastery testing**

*Completion of this assignment is MANDATORY and this will be your first grade in this class.*

- The summer assignment is due on the first day of class on Tuesday Aug. 18, 2026 on Oncampus folder by **7:00am**.
- Late assignments will be accepted but will be penalized based on the number of days the assignment is late.
- The first two days of class students may ask questions and teacher will review summer assignment.
- At the end of the first week students will be expected to take a mastery test on Unit 1 which will count as their first test of the quarter.

**Required Content**

**Purpose:** To introduce you to the foundational ideas of statistics, familiarize you with data interpretation, and ensure you're ready to hit the ground running in the fall.

**REMEMBER:**

The CCHS Honor Code applies to this packet.  
DO NOT COPY ANSWERS FROM YOUR CLASSMATES.

**Note:**

Remember, this is an Honors course! Do not expect this to be an “easy course”. Although it may not seem as difficult computationally as calculus, it requires a great deal of outside reading and homework, and it requires a thorough understanding of many abstract concepts. This is as much a writing course as it is a math course! Explaining in complete sentences is required on this assignment and throughout the course. You cannot just write down numbers and be done, you must use numbers in **context** – what they mean to that particular problem using appropriate units. Enjoy your summer and looking forward to meeting you in August! Smiles ~ Mrs. Romero

# **ASSIGNMENT**

Watch the 3 videos

## **Notes & Vocabulary**

Please define, IN YOUR OWN WORDS, each of the following terms from each of the videos. When asked, provide a unique example of the word. Examples from the video or this packet will NOT receive credit. Then answer a few question at the end of the video to check understanding of concept.

## **Part 1: Vocabulary and Concepts**

Define the following terms in your own words. Include a real-world example for each

### **Video 1: Statistics: The Science and art of Data**

1. Statistics Example:
2. Population Example:
3. Parameter Example:
4. Individual Example:
5. Variable Example:
6. Categorical variable Example:
7. Quantitative Variable Example:

8. Distribution  Example:
9. Frequency Table  Example:
10. Relative Frequency Table  Example:

**Video 2: *Displaying Categorical Data***

1. Bar Charts  Example:
2. Pie Charts  Example:
3. Side-by side bar chart  Example:

 **Part 2: Data Collection and Analysis**

Choose **any 10 people** (friends, family, teammates, etc.). Ask them the following:

<b>How many hours do you sleep on a typical school/work night?</b>			
Person	Hours	Person	Hours
1		6	
2		7	
3		8	
4		9	
5		10	

What is your favorite social media platform?			
Person	Media Platform	Person	Media Platform
1		6	
2		7	
3		8	
4		9	
5		10	

Do you prefer sweet or salty snacks?			
Person	Sweet/Salty	Person	Sweet/Salty
1		6	
2		7	
3		8	
4		9	
5		10	

Using this data:

1. Create a **frequency table** for each question.
2. Calculate the **mean and median** for the hours of sleep. (show work)
3. Create **two bar graphs**: one for social media preference and one for sweet vs. salty.
4. Write a short **summary paragraph** of what you noticed in your data.