Augusta Christian Schools

AP Statistics

Summer Work

Mrs. Stephanie Kellogg

Please follow all the instructions. Failure to follow all directions will result in a zero on this assignment.

1. The purpose of this summer assignment is to get you reading and writing to prepare you for lots of reading and writing during AP Stat and to review some basic topics from previous math courses.
2. This is a college level course, and the expectation is that you rise to the challenge and demonstrate a college level work ethic and quality work.
3. Do not wait until the last minute to complete this packet.
4. This is an individual assignment. Please complete on your own and to the best of your ability.
5. At the end of the assignment, please rate the difficulty level and sign the printed statement.
6. Be sure your name is on the assignment.
7. If you have any questions, email me (stephaniekellogg@augustachristian.org)!
8. Turn the assignments in to Mrs. Kellogg **on the first day of school, August 5.**

Caution about Academic Integrity:

DO NOT copy the answer to any assignment from sources you find on the internet. Doing so will be considered plagiarism and will result in a zero for the assignment. Answers must be in your own words!

Student's Name: _____

Part 1: Reading and Reflecting

Statistics will be unlike any other math course you've ever experienced. In fact, many consider AP Statistics to be more of a science than a math course. Reading comprehension and clear communication skills are more crucial to your success in AP Statistics than raw math ability. We will go beyond fill in the blanks and short answers in this course. The answers will come from thinking about how and why things work the way they do and then using context to frame the scenario given.

You will read the following text:

- *How to Lie with Statistics* by Darrell Huff
- You can find the book on Amazon for under $15.

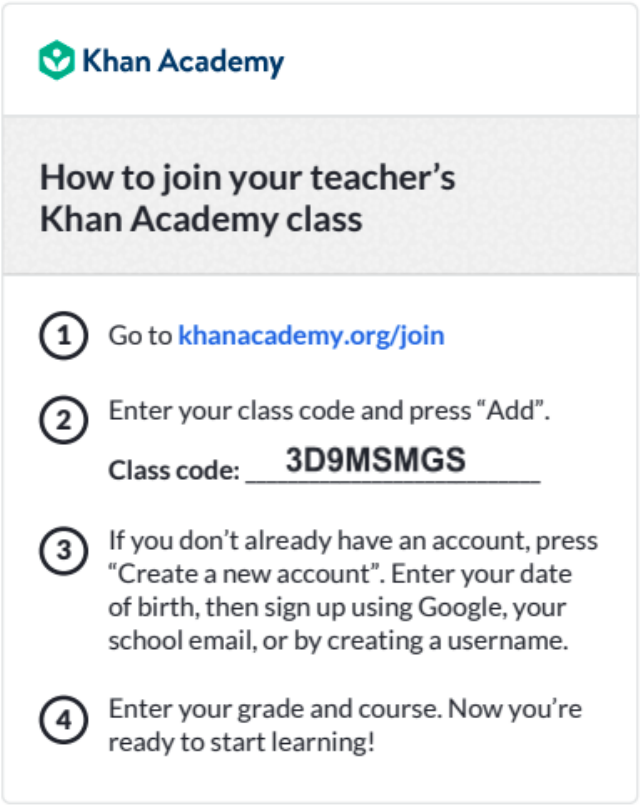
After reading, you will write a two page reflection. You should refer to ideas you have read about so that I know you indeed read it! Write clearly, using correct spelling and grammar. Your reflection must be typed in a Google Doc and emailed to me (stephaniekellogg@augustachristian.org). It must be your original work, or it is plagiarism. If you are referencing someone else, correctly cite their work.

In your reflection, **CHOOSE 3** of the following prompts to address:

1. Describe a time when you've seen statistics used in a way that seemed misleading or manipulative in real life. How did the presentation of data make the information seem different from reality?
2. Explain three ways that people might intentionally or unintentionally misrepresent statistical information in media or advertising. Provide specific examples to support your explanation.
3. Discuss the ethical responsibilities of journalists, researchers, and data presenters when sharing statistical information. What moral obligations do they have to ensure accuracy and transparency?
4. Reflect on how understanding statistical manipulation can help you become a more critical consumer of information. What strategies can you use to evaluate statistical claims more carefully?
5. Describe a situation in your own life where understanding statistical nuances could help you make a more informed decision.
6. Create a "guide" for your peers on how to critically examine statistical claims, using examples from the book and your own observations.
7. How has reading "How to Lie with Statistics" changed your perspective on numerical information and data presentation? What is the most important lesson you've learned about statistical literacy?

Part 2: Skills Review

You will work through the **"Get Ready for AP Statistics"** course on Khan Academy. See below for instructions on how to join our class on Khan Academy. To sign in to Khan Academy, choose "Sign in with Google" and then use your Augusta Christian email account. If you have any trouble finding where to put in the class code, go to "My Account" and Click on "Teachers".



- Once you have signed in and joined the class on Khan Academy, work through all topics in the 5 units (watch the videos and complete the practice exercises).
- After completing all 5 units, please complete the Course Challenge at the end.

On a scale from 1 to 10 (1 being extremely easy and 10 being extremely difficult), how difficult was this summer assignment? _____

Statement: "I did this work on my own and did not copy answers from any source."

Signed: _____