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What dataset are you working with: fifa\_audience

List 3 questions that you can ask with your dataset.

Q1: Are the TV audiences for CONCACAF and UEFA different from each other?

Q2: Are the GDP shares for CONCACAF and UEFA different from each other?

Q3: Are the TV audiences for CONCACAF, UEFA, and AFC different from each other?

List the associated null hypothesis for each question:

Q1:The TV audiences for CONCACAF and UEFA are the same.

Q2: The GDP shares for CONCACAF, UEFA, and AFC are the same.  
Q3: There are no differences in TV audiences between CONCACAF, UEFA, and AFC.

What statistical test(s) will you use to answer each of the questions:

Q1: T-test

Q2: T-test

Q3: One-way ANOVA

Make a visual plot showing the relationship that you will analyze statistically (e.g. boxplot for t-test or ANOVA; scatterplot for regression; table for chi-square).

Q1: boxplot



Q2: boxplot



Q3: Boxplot



Do your data meet the assumptions required for the statistical test you want to run? Please state the assumptions you examined and whether or not your data meet those assumptions:

Q1: Equal variances: var.test shows they are; normal distributions: distributions are not normal, but sample sizes are large enough.

Q2: Equal variances: var.test shows they are; normal distributions: distributions are not normal, but sample sizes are large enough

Q3: Equal variances: variances are not equal, so we cannot run an ANOVA.

Run the statistical test! Put your results here:

Q1: p=0.2993

Q2: p = 0.4649

Q3:

Interpret your results!

Q1: The mean TV audiences for CONCACAF and UEFA are not significantly different from each other.

Q2: The mean GDP shares for CONCACAF and UEFA are not significantly different from each other.

Q3: