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1  *
2  Azah Mansour
3  6/14/25
4  Final Project- Fast Food Nutrition
5  ;
6
7  LIBNAME Project '/home/u64067679';
8
9  PROC PRINT DATA=Project.fastfoodnew (obs=15);
10 RUN;
11
12
13 *1a. Creating a new variable, SugarCarb_ratio, by dividing sugar by total_carb;
14 DATA project.ratiofastfood;
15     SET project.fastfoodnew;
16     SugarCarb_ratio= (sugar/total_carb)*100;
17 RUN;
18
19
20 *1b. sorting data by sodium in descending;
21 PROC SORT DATA=project.ratiofastfood OUT=fastfoodsorted;
22     BY DESCENDING sodium;
23 RUN;
24
25
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27
28 *2. Is the average amount of sodium in a menu item greater than 500 mg?;
29 PROC TTEST DATA=fastfoodsorted ALPHA=.01 PLOTS=all CL=equal;
30     VAR sodium;
31 RUN;
32
33 PROC SGPLOT DATA=fastfoodsorted;
34     HISTOGRAM sodium;
35     DENSITY sodium;
36 RUN;
37 *2b. The distribution of the histogram indicates that the data for the sodium variable
38     is approximately normally distributed.;
39 *2c. Yes;
40 *2d. we are 99% confident that the true average amount of sodium falls between
41     1168.1 and 1325.3 mg, indicating that the average menu item's sodium content
42     is greater than 500 mg.;
43
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47
48 *2. Does a higher total carb mean more sugar?;
49 PROC GLM DATA=fastfoodsorted PLOTS=all;
50     MODEL sugar=total_carb;
51 RUN;
52
53 PROC SGPLOT DATA=fastfoodsorted;
54     SCATTER X=total_carb Y=sugar;
55 RUN;
56 *2b. The scatterplot indicates a positive, but weak relationship between total carbs
57     and sugar content. As total carbs increases, sugar content will slowly increase.;
58 *2c. Yes;
59 *2d. There is statistically significant evidence to infer a positive relationship
60     between total carbs and sugar content in a menu item. For every 1 gram increase in total carbs,
61     the total sugar content will increase by .149 grams;
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63
64
65

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