

AP Statistics

2019-01-17 Review Assignment

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Chapter 4

Question 1: **B**

Question 2: **E**

Question 3: **C**

Question 4: **E**

Question 5: **A**

Question 6: **B**

Question 7: **C**

Question 8: **C**

Question 9: **C**

Question 10: **B**

Question 11

Part A

The patients were assigned different treatments, taking vitamin E or not taking vitamin E.

Part B

Explanatory: taking vitamin E

Response: heart function

Part C

Entirely randomized; each subject was assigned to a group randomly

Part D

It shows that there was a statistically different value between the two groups that cannot be easily ruled out by variance.

Part E

One group kept their initial treatment of no vitamin E. This helps rule out the placebo effect and any other variances that may have occurred in the groups.

Chapter 1

Question 1: **B**

Question 2: **D**

Question 3: **D**

Question 4: **C**

Question 5: **E**

Question 6: **D**

Question 7: **C**

Question 8: **B**

Question 9: **D**

Question 10: **C**

Question 11:

Stony brook

Outliers are $<-2.5, >13.5$

No outliers

Mill Brook

Outliers are $<-4.5, >19.5$

Outlier is 20

Question 12

See "2019-01-17 Review Assignment - Image 1.png"

Question 13

Mill Brook had a larger distribution than Stony Brook. Mill Brook had approximately 8 mg while Stony Brook had approximately 5.25.