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Reflect on the Question

Analyze the Data

Draw Conclusions

## Primary Research Question

What variable has the strongest linear relationship with Earnings: Percentage rides or Cup points?

(7/8 points)

## Write Your Conclusion

Answer the question and support your answer with statistics:

An initial examination of the relationships between Ride Percentage (RidePer) and Earnings, and Cup Points (CupPoints) and Earnings showed that Cup Points had the  stronger relationship to Earnings. Ride Percentage and Earnings showed a correlation value of  0.619 while Cup Points and Earnings had a correlation value of  0.674. Visual examination showed an  outlier in both relationships—a rider who has earned over 1 million dollars. Removal of this increased the initial relationship: Ride Percentage and Earnings now had a correlation value of  0.814 and Cup Points and Earnings had a correlation value of  0.904.  Cup

Points still had the higher relationship to Earnings. Visual examination showed a **weak linear relationship** good linear relationship good for both Ride Percentage and Cup Points, indicating the correct use of the correlation coefficient.

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