

Name: \_\_\_\_\_

Class: \_\_\_\_\_

# Let's Serve

GRADES 6-8

## Elaborate

First Serve			Second Serve (only needed if first serve is not inbounds)	
Serve Number	Speed	Result In - Out - Let	Speed	Result In - Out - Let
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

## Evaluate

Answer the following in the form of a fraction.

1. What was the probability you hit your first serve in? Write your answer as a ratio, decimal, and percentage.
2. What was the probability your hit your second serve in? Write your answer as a ratio, decimal, and percentage.
3. What was the maximum and minimum speeds of your first serves? How does this compare to your second serve?

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## Extend

Using your data from *Elaborate*, construct a scatterplot where the independent variable is your number of serves and the dependent variable is your speed. Use two different colors to represent the first serve attempt and second serve attempt for each serve.



4. Discuss the features of the scatterplot:
  - a. Clustering
  - b. Outliers
  - c. Type of correlation (positive/negative/none)
  - d. Type of association (linear/nonlinear)