

Name _____

Date _____

Analyzing Data While Playing Jacks

Object: To collect data, while playing the game of Jacks, to analyze numerically.

Materials:

- 10 Jacks for each group of students
- 1 Bouncy ball for each group of students

Procedure:

1. Each group will play a game of Jacks with 10 Jacks and 1 Bouncy Ball.
2. For the purpose of this activity, a student will be eliminated if they commit a foul.
3. Players, in each group, will take turns until each player is eliminated from the game.
4. The group will record the round in which each player was successful in picking up the Jacks, before they were eliminated from the game.
5. The group will add their data to the class set of data on the board.
6. Each student will create a neatly drawn data table to organize and record the class data.
7. Each student will calculate the average/mean number of successful rounds for the class.
8. Each student will determine the median for the number of successful rounds for the class.
9. Each student will create a line plot for the number of successful rounds for the class.
10. Each student will determine the range of successful rounds for the class.
11. Each student will determine the mode for the number of successful rounds for the class.

Group's Record:

Name _____
Name _____
Name _____
Name _____

Number of Successful Rounds _____
Number of Successful Rounds _____
Number of Successful Rounds _____
Number of Successful Rounds _____

Class Data Table:

Class Average/Mean

Showing your work, calculate the class average of mean for the number of successful rounds:

Class Median:

Showing your work, determine the class median for the number of successful rounds.

Line Plot

Create a line plot for the number of successful rounds in the class.

Range

Determine the range for the number of successful rounds in the class.

Mode

Determine the mode for the number of successful rounds in the class.