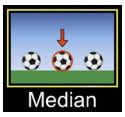
Lesson A4: Introduction to Median

Open Play

1) Play with Center and Variability (both screens) for 5 minutes. Write down three questions or observations.
   a.

   b.

   c.



Median

2) What do the numbers on the white cards represent? (15 9 15 14 14)

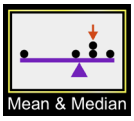
3) After playing with the sim, how would you describe the **median**?

4) Explain how to find the median value from a list of numbers.

   (15 9 15 14 14)

5) Explain how to find the median ball from a set of soccer kicks.

6) Find the median test score from a recent class test if the scores were 88, 85, 92, 68, 85, 90, 86, 88.



Comparing Mean and Median

7) After the class kicks all 15 soccer balls, pick one ball and move it around. Describe what happens to the mean and the median values when one ball moves.

8) Here is some data about the number of sunny days in one year for some cities around the US.

City	Sunny days in one year
Phoenix, Arizona	211
Cincinnati, Ohio	81
Cleveland, Ohio	66
Atlanta, Georgia	110
Baltimore, Maryland	105
Birmingham, Alabama	99
Boston, Massachusetts	98

a. Find the mean and median number of days of sunshine in one year for these cities around the US.

b. What do the mean and median tell you about this data set?

Summary

If your class kicks 14 balls and the 15th person kicks the ball waaaay farther than the others, is their kick more likely to impact the mean kick distance or the median kick distance? Explain your thinking.