

Let's go back to the Post-It<sup>®</sup> Notes. This time, *only use 9* of them.

1. Arrange them on the plot Age Scale so that the *median* is 21 years. What did you have to do to achieve a median of 21?
2. Now change one of the values that is currently higher than 21 years. If you move it higher or lower than it is right now, but keep the value higher than 21 years, is the median affected? Explain.
3. Now move all of the values that are above 21 years so that each one has a higher value than it does currently. Did this have any effect on the median? Explain.
4. Now move all of the values that are lower than 21 years so that each one has a lower value than it does currently. Did this have any effect on the median? Explain.
5. What would you have to do with a data value to change the median? Explain.

**Things to Consider**

- What factors affect the median for a data set? Using our set of 9 Post-It<sup>®</sup> Notes, under what conditions does the median change or stay the same?
  
  
  
  
  
  
  
  
  
  
- What would change if we used 10 Post-It<sup>®</sup> Notes and tried to find the median?
  
  
  
  
  
  
  
  
  
  
- What are the properties of the median? How do those differ from properties of the mean?
  
  
  
  
  
  
  
  
  
  
- When does a median seem to be a better measure of what is typical about a data set?
  
  
  
  
  
  
  
  
  
  
- If we think of the *mean* as a “balance point” of the deviations, what would the *median* balance?