**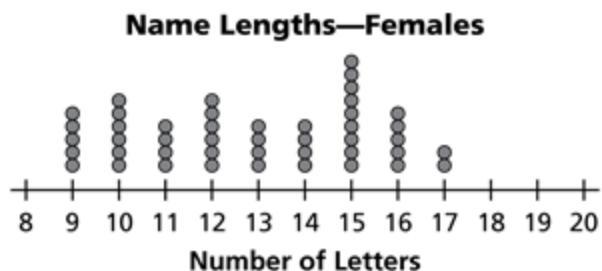17.** Both the mean and the median name length for female names is greater than the measures of center for male names. So, female names are longer.

**18. a.** Student answers may vary. Sample dot plot:

**Name Lengths—Females**

8  9  10  11  12  13  14  15  16  17  18  19  20

**Number of Letters**

**b.** The change in data values will shift the median to a smaller value.

**c.** The change will affect the mean; the higher values being removed and the four values that are less than the mean being added in will cause the mean to be less than it was originally.

**19.** B

**20.** J

**26.** Yes; since the definition of mean implies that you should divide the sum of the scores by the total amount of scores. This shows the Distributive Property of Multiplication Over Addition. Rather than multiplying the sum by one half or one third, Mark is multiplying each addend by one half or one third.