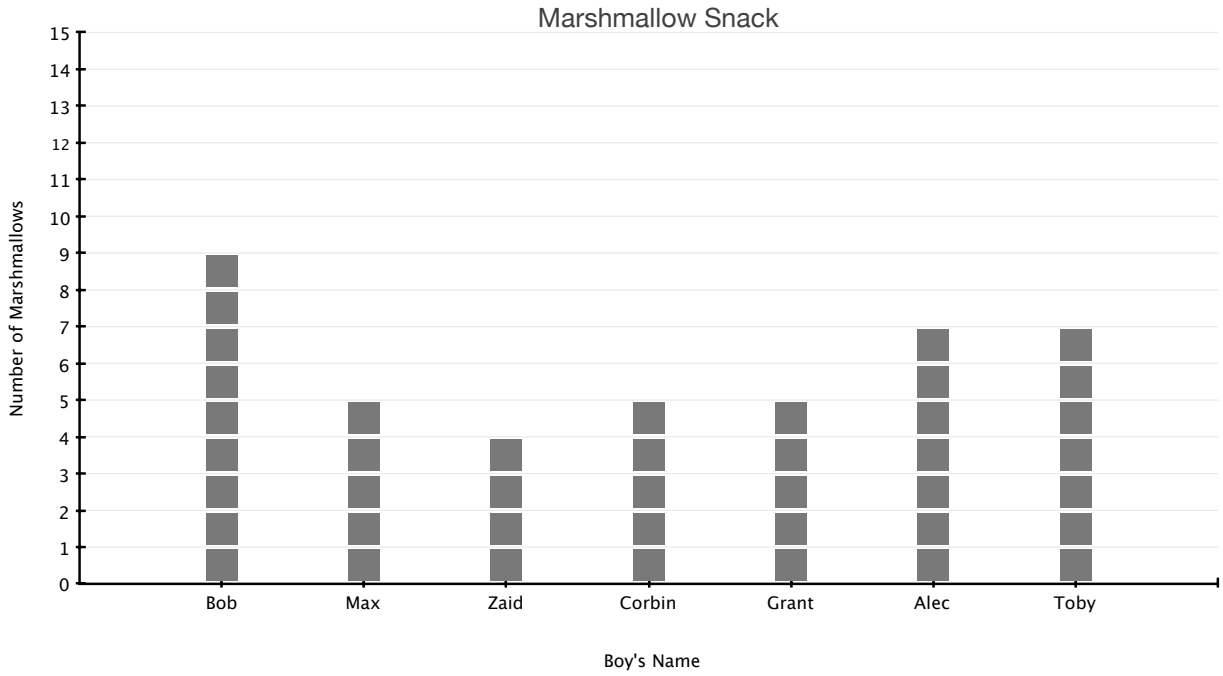
Mean, Median, Mode (Part 1)

Use What You've Learned

1. Seven boys decided to have marshmallows for an after-school snack. The following graph shows the number of marshmallows each boy ate.



The mode, median, and mean are three ways to describe the number of marshmallows eaten by a typical boy in this group.

a. Determine the mode of this set of data.

b. Determine the median of this set of data.

c. Determine the mean number of marshmallows by equalizing, or leveling out, the heights of the columns in the bar graph. Indicate your results on the bar graph shown above.

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2. The following measurements are the heights of the six senior players on the Washington High School boys' basketball team. 6'0" 6'2" 6'0" 6'5" 6'0" 6'5"

   a. Determine the median for this set of data.

   b. Determine the mode for this set of data.

   c. Determine the mean height of the players. Explain how you determined your answer.

   d. Determine the mean height again, using a different strategy. Explain how you determined your answer.

3. According to the American Veterinary Medical Association, the mean amount of money spent each year per pet dog is $200. Which of the following statements is true based on this information?
   a. Every pet owner spends $200 each year on veterinary visits for their dog.
   b. No pet owner spends more than $200 per year on veterinary visits for their dog.
   c. Some pet owners might spend more than $200 and some might spend $200 or less on veterinary visits for their dog each year.
   d. All pet owners spend some money on veterinary visits for their dog each year.

4. According to the American Veterinary Medical Association, the mean number of veterinary visits per household each year for pet dogs is 2.6 visits. How can someone make 2.6 visits to the veterinary office?

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