

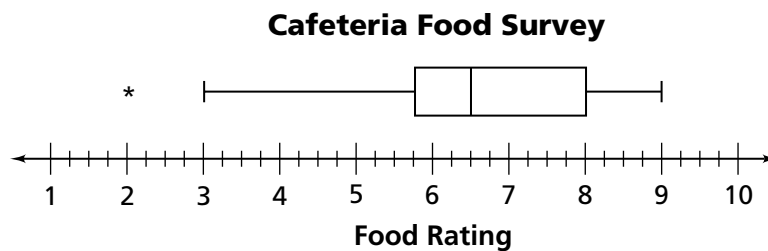




Name \_\_\_\_\_ Date \_\_\_\_\_ Class \_\_\_\_\_

**Additional Practice** *(continued)***Investigation 2****Samples and Populations**

In a survey of the cafeteria food at a middle school, 50 students were asked to rate how well they liked the lunches on a scale of 1 to 10, with 1 being the lowest rating and 10 being the highest rating. The box plot below was made from the collected data.



9. What is the range of students' ratings in the sample?
  
10. What percent of the students in the sample rated the cafeteria food between 5.75 and 9?
  
11. Based on the sample data, how many of the 1,000 students at the school do you estimate would rate the cafeteria food 6 or higher? Explain your reasoning.
  
12. A rating of 8 to 10 indicates "highly satisfied" on the rating scale.
  - a. What percent of students in the sample are "highly satisfied" with the cafeteria food?
  
  - b. Estimate how many students at the middle school would give the cafeteria food a "highly satisfied" rating.