

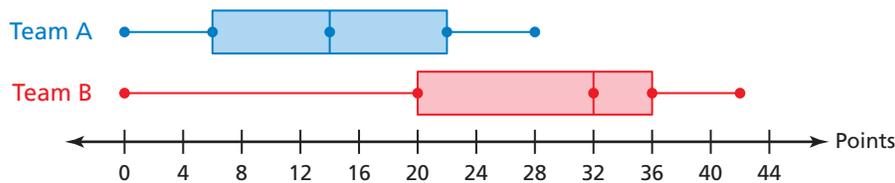
10.6–10.7 Quiz

1. Which sample is better for making a prediction? Explain. (Section 10.6)

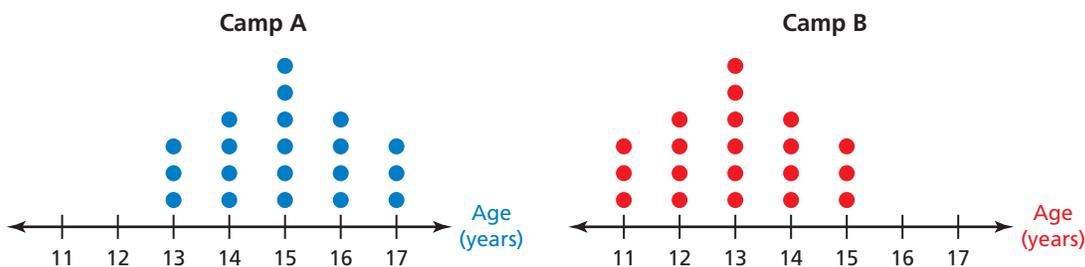
Predict the number of students in your school who play at least one sport.

Sample A	A random sample of 10 students from the school student roster
Sample B	A random sample of 80 students from the school student roster

2. **GYMNASIUM** You want to estimate the number of students in your school who think the gymnasium should be remodeled. You survey 12 students on the basketball team. Determine whether the sample is *biased* or *unbiased*. Explain. (Section 10.6)
3. **TOWN COUNCIL** You want to know how the residents of your town feel about a recent town council decision. You survey 100 residents at random. Sixty-five support the decision, and thirty-five do not. So, you conclude that 65% of the residents of your town support the decision. Determine whether the conclusion is valid. Explain. (Section 10.6)
4. **FIELD TRIP** Of 60 randomly chosen students surveyed, 16 chose the aquarium as their favorite field trip. There are 720 students in the school. Predict the number of students in the school who would choose the aquarium as their favorite field trip. (Section 10.6)
5. **FOOTBALL** The double box-and-whisker plot shows the points scored per game by two football teams during the regular season. (Section 10.7)



- a. Compare the populations using measures of center and variation.
- b. Express the difference in the measures of center as a multiple of the measure of variation.
6. **SUMMER CAMP** The dot plots show the ages of campers at two summer camps. (Section 10.7)



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