**Test, Form 1B**

**Write the letter for the correct answer in the blank at the right of each question.**

**1.** The manager of a hotel wants to know how often his customers rent boats at a nearby lake. Which sampling method will give valid results?

**A.** He asks every tenth customer who checks into the hotel.

**B.** He posts a question on the hotel’s Web site.

**C.** He randomly surveys households in the neighborhood.

**D.** He asks every customer in the hotel lobby at noon.

**2.** To survey a town about traffic concerns, Himani divided the town into eight   
regions and randomly chose 10 households from each region. What type of   
sample did she form?

**F.** simple random sample

**G.** systematic random sample

**H.** biased sample

**I.** convenience sample

**3.** Five out of seven teens said they do homework every night. What is a reasonable prediction for the number of teens out of 980 who would do homework every night?

**A.** 57 **C.** 350

**B.** 140 **D.** 700

**4.** Use the data set $8, $10, $15, $8, $12, $13, $8 and $11. Which measure of center would you use to convince people that the prices are low?

**F.** mean **H.** mode

**G.** median **I.** none of these

**5.** Which of the following is an appropriate display to show the prices of gasoline over the past 3 weeks?

**A.** bar graph **C.** circle graph

**B.** line graph **D.** histogram

**6.** Which of the following is an appropriate display to show the heights of buildings arranged by intervals?

**F.** bar graph **H.** circle graph

**G.** line graph **I.** histogram

SCORE \_\_\_\_\_\_\_\_\_\_

**1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

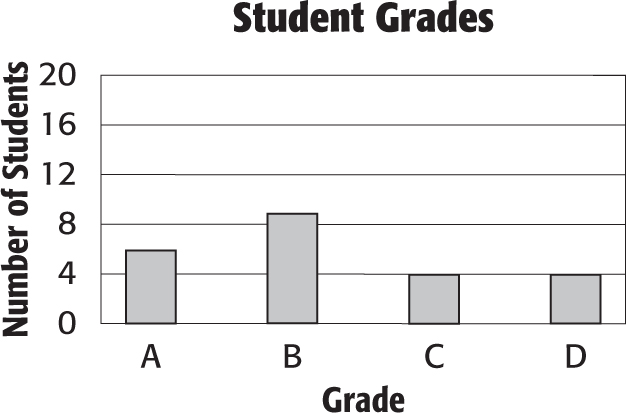
**4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Test, Form 1B *(continued)*** SCORE \_\_\_\_\_\_\_\_\_\_

**7.** The bar graph compares the number of students that received a grade of an A, B, C or D in Ms. Logan’s classroom. Which statement best tells why the graph could be misleading?

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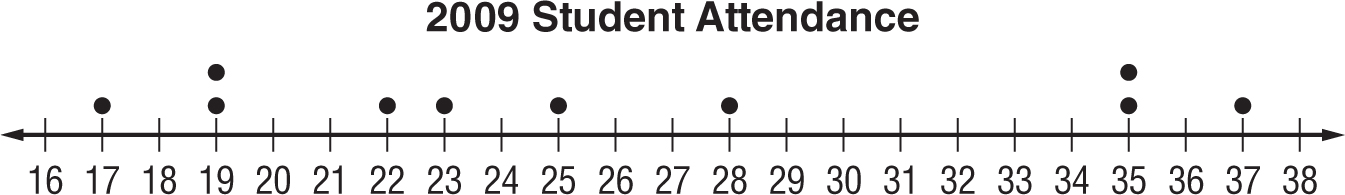
**A.** The intervals on the vertical axis are not equal.

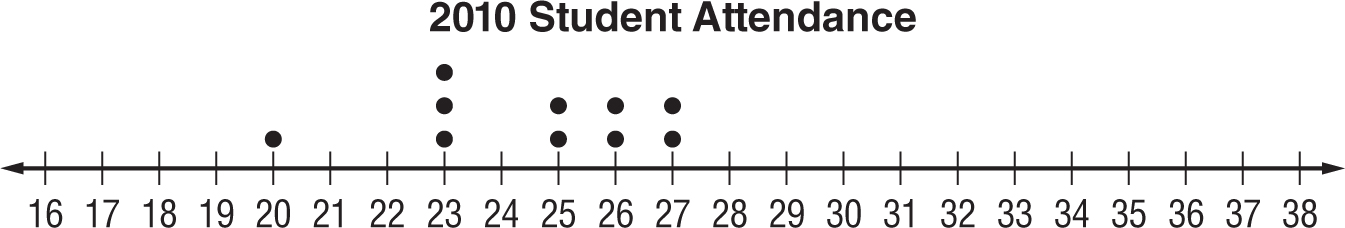
**B.** The graph title is misleading.

**C.** The intervals on the vertical axis make it appear that the number of students that received each grade are nearly the same.

**D.** The graph should be a line graph.

**8.** The double line plot shows the number of students who attended the home games of the baseball team for two recent seasons.





Which of the following statements is *not* true

**F.** The attendance for 2009 was more varied.

**G.** The attendance for 2010 was more consistent.

**H.** The attendance for 2009 peaked at 23 students.

**I.** The attendance for 2010 ranged from 20 to 27.

**9.** A survey showed that 90% of students would select roller coasters as their favorite ride at an amusement park. Out of 5,000 students, predict how many would select roller coasters as their favorite ride?

**A.** 4,500 **C.** 450

**B.** 500 **D.** 50

**10.** Which measure of center should you use to describe two data sets that are both symmetric?

**F.** mean **H.** median

**G.** mode **I.** range

**7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**10. \_\_\_\_\_\_\_\_\_\_\_\_\_**