Name: _____
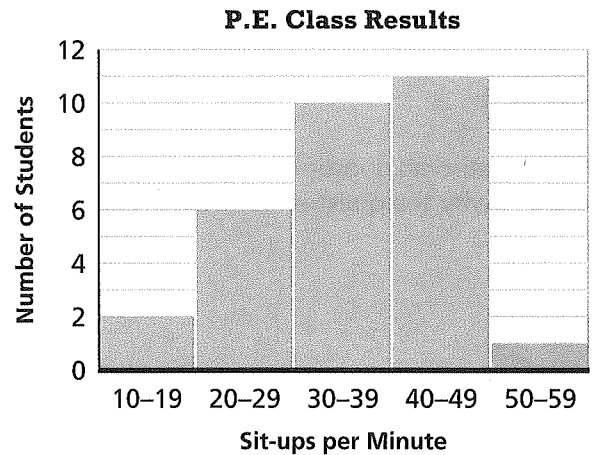
1. **Vocabulary** Describe how the mean and the mode are alike and how they are different. *Lesson 8-2*

2. A P.E. teacher recorded how many sit-ups the students in her class did in one minute. Which statements describe the data? Select all that apply. *Lesson 8-4*

☐ Every student did at least 10 sit-ups in one minute.

☐ Two students did 50 or more sit-ups in one minute.

☐ Eight more students did 30 to 39 sit-ups than did 10 to 19 sit-ups.

☐ More than half of the students did 40 or more sit-ups in one minute.

☐ There are 30 students in the class.

P.E. Class Results

In 3 and 4, determine whether each question is *statistical* or *not statistical*. Explain.

3. How many pages did Liz read yesterday? *Lesson 8-1*

4. How many books did each of the students in grade 6 read last year? *Lesson 8-1*

In 5 and 6, use the table of cousins' ages at a family reunion.

5. Make a box plot of the ages. *Lesson 8-3*

Cousins' Ages (years)

10, 9, 10, 14, 21, 11, 16, 10, 16

6. Which measure of the ages has the greatest value? *Lesson 8-2*

Ⓐ mean   Ⓑ median   Ⓒ mode   Ⓓ range

How well did you do on the mid-topic checkpoint? Fill in the stars.

☆ ☆ ☆

MID-TOPIC PERFORMANCE TASK

Antonia surveys a group of students entered in a school science fair. Her results are shown.

Hours Spent on Project

8, 12, 10, 5, 2, 10, 17, 20, 14, 22

PART A

What statistical question could Antonia have asked to gather these data? Explain why the question is a statistical question.

PART B

Find the mean, median, mode, and range of Antonia's data. Draw lines to match each measure to its value.

mean		10 hours
median		11 hours
mode		12 hours
range		20 hours

PART C

Choose reasonable intervals and then make a frequency table and a histogram to show Antonia's data.

Hours	Tally	Frequency

Hours Spent on Project

Number of Students

Total Number of Hours