

Problem Solve with Data



Check-In: Questions 1–4

Solve each problem.

- Shannon pitches for her softball team. She has played 10 games. Here is the number of players she struck out in each game: 1, 3, 5, 3, 3, 0, 2, 4, 2, and 2.
 - Find the median number of strikeouts.
 - Find the mode.
 - Use the data to predict the number of players that she will strike out in the next game. Explain how you made your prediction.

- Lin, Jacob, Grace, and Luis are in four different fifth-grade classrooms. Each class gives spelling quizzes with 10 words. Their spelling scores are listed below:

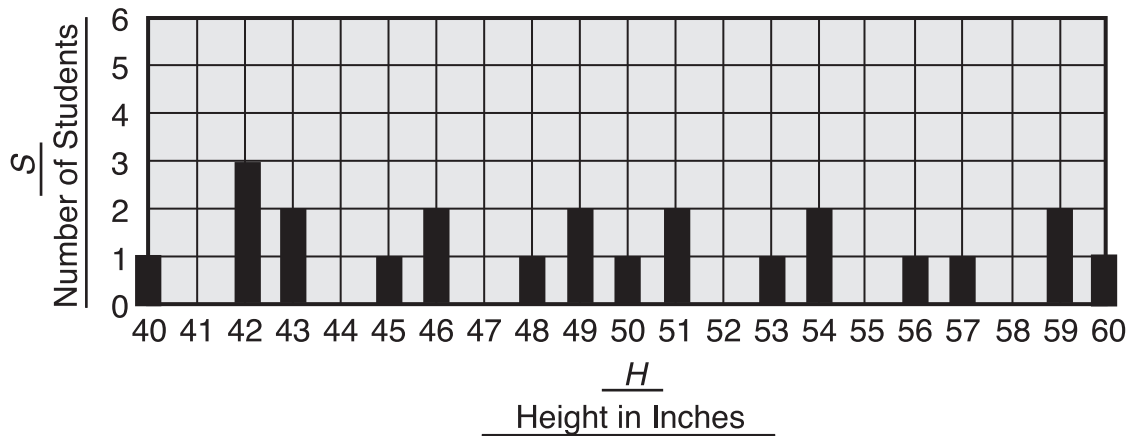
Lin: 10, 4, 9, 10, 7
Jacob: 8, 9, 8, 6, 5, 6
Grace: 7, 8, 8, 9, 8, 10
Luis: 8, 8, 8, 8, 8

 - Find the median spelling score for each student.
 - Find the mode for each student.
 - Use the data to decide who is the best speller. Explain how you decided.

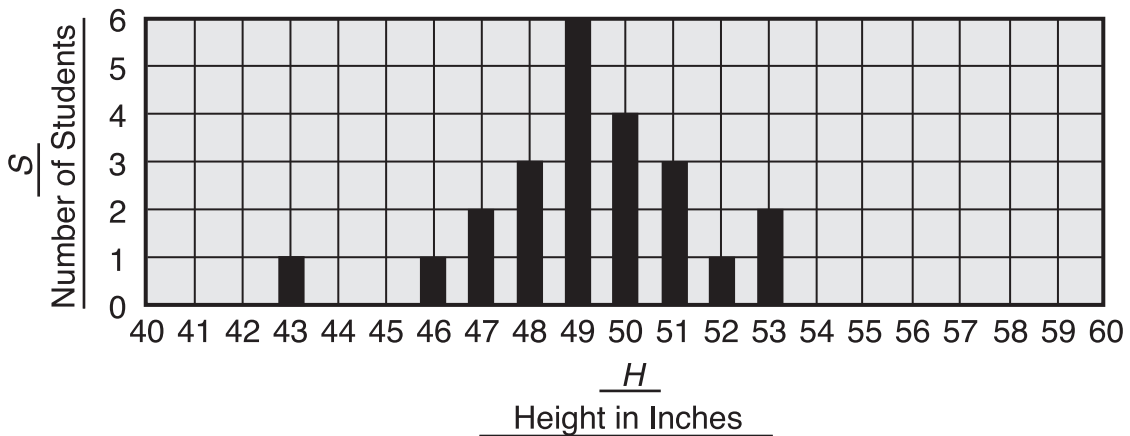
3. Mr. Moreno’s fifth-grade class collected three sets of data:
- The heights of the students in Mr. Moreno’s fifth-grade class.
 - The heights of a class of kindergarten students.
 - The heights of 23 students in the school cafeteria at lunch time. (Students in kindergarten through fifth grade eat lunch together.)

They made a graph for each set of data but forgot to include titles. Use the descriptions of the data and the information on the graphs to write a title for each graph.

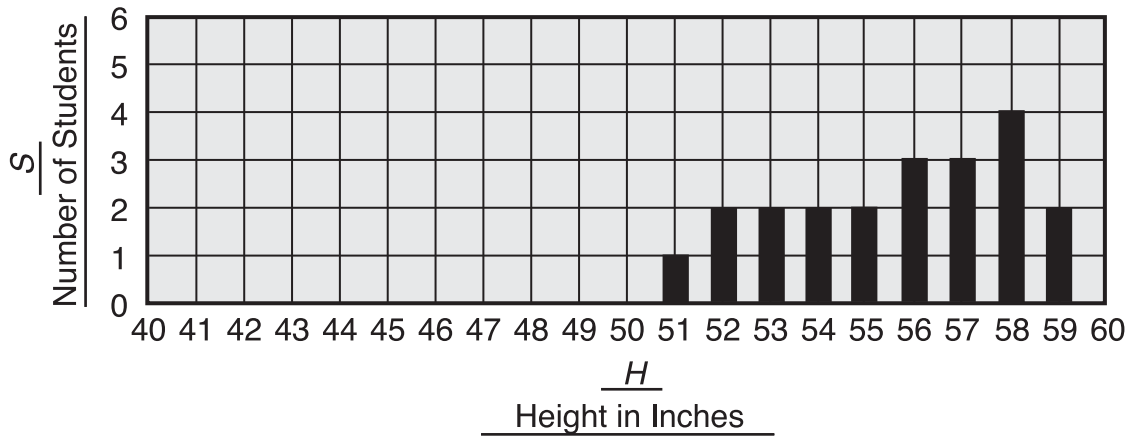
A.



B.



C.



D. Show or tell how you chose the title for **Graph B**.

4. A. Find the median for the height of the students represented in **Question 3, Graph C**.

B. Show or tell how you found the median.

C. Find the mode for the height of these students.

Problem Solve with Data Feedback Box	Expectation	Check In	Comments
Find the median of a data set. [Q# 1A, 2A, 4A]	E5		
Find the mode of a data set. [Q# 1B, 2B, 4C]	E6		
Read a table, line plot, or graph to find information. [Q# 3A–D, 4A, C]	E7		
Make predictions and generalizations about a data set using a median and mode. [Q# 1C, 2C, 3D, 4A–C]	E9		

	Yes . . .	Yes, but . . .	No, but . . .	No . . .
MPE1. Know the problem. I read the problem carefully. I know the questions to answer and what information is important. [Q# 1A–B, 2A–B, 3A–C, 4A, C]				
MPE5. Show my work. I show or tell how I arrived at my answer so someone else can understand my thinking. [Q# 1C, 2C, 3D, 4B]				