

Solve each problem.


- A. Lee Yah spent \$2.10, \$3.50, \$2.75, \$2.50, and \$3.00 for lunches one week. Find her median cost.

B. Show or tell how you found the median.
- A. In the first six baseball games of the season, Manny made 2, 3, 0, 2, 3, and 1 hits. Find the median number of hits.

B. Predict the number of hits Manny will make in the next game. Explain your thinking.
- Blanca counted the eyelets on her shoes at home. On four pairs of shoes, she counted 0, 32, 24, and 20 eyelets.

A. Find the median number of eyelets.

B. Do you think this value represents this set of data well? Why or why not?



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**Homework (SG p. 22)**

**Questions 1–4**

- A. \$2.75

B. Possible response: I made a list of all the dollar amounts: \$2.10, \$2.50, \$2.75, \$3.00, and \$3.50. I found that \$2.75 was right in the middle since there were two amounts that were below it and two amounts that were above it.
- A. 2 hits

B. Predictions will vary. A good prediction is 2 hits since that is his median number of hits. Any predictions greater than 3 hits would not make sense since Manny has never made that many hits.
- A. 22 eyelets

B. Explanations will vary. One possible response is to say, “no,” since the median value is not an actual value of the number of eyelets on a pair of shoes. On the other hand, the number is in the middle of the data so students could say “yes.”

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### 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.

A. Find the median number of strikeouts.

B. Find the mode.

C. Use the data to predict the number of players that she will strikeout 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

A. Find the median spelling score for each student.

B. Find the mode for each student.

C. Use the data to decide who is the best speller. Explain how you decided.

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**Student Activity Book**

**Problem Solve with Data (SAB pp. 3–5)**

**Questions 1–4**

- A. 2.5 players

B. there are two modes, 2 and 3

C. Answers will vary; however, students should choose either 2 or 3 strikeouts. Possible explanation: I choose 3 strikeouts because the median is 2.5 and 3 is one of the modes. Since 2.5 is between 2 and 3, I rounded it up to 3 for my prediction.
- A. Lin: 9; Jacob: 7; Grace: 8; Luis: 8

B. Lin: 10; Jacob: 8 and 6; Grace: 8; Luis: 8

C. Possible responses: I think Lin is the best speller since she has the highest median (9) and the highest mode (10). Or, I think Grace or Luis are the best spellers because they have 8 for both their median and their mode and they are most consistent (Lin has one score of 4).

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3. **A.** Possible response: Heights of 23 Students at Lunch Time  
**B.** Possible response: Heights of Kindergarten Students  
**C.** Possible response: Heights of Fifth Grade Students  
**D.** Possible response: The bars on this graph shows students who are shorter in height. The bars are clustered around 49 inches (this is the median and the mode for this data set). The bars on Graph C show taller heights and are clustered around 56 inches.

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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.**

Height (inches)	Number of Students
40	1
41	1
42	3
43	2
44	1
45	1
46	2
47	1
48	1
49	2
50	1
51	2
52	1
53	1
54	2
55	1
56	1
57	1
58	1
59	2
60	1

**B.**

Height (inches)	Number of Students
40	1
41	1
42	1
43	1
44	1
45	1
46	2
47	3
48	4
49	6
50	4
51	3
52	1
53	2
54	1
55	1
56	1
57	1
58	1
59	1
60	1

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4. **A.** 56 inches  
**B.** Possible response: Since there are 21 pieces of data used for the graph, if you use the bars on the graph to count 10 students starting at the left of the graph, the next student will be the middle student (the eleventh student), so his or her height will be the median height.  
**C.** 58 inches

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**C.**

Height (inches)	Number of Students
40	1
41	1
42	1
43	1
44	1
45	1
46	1
47	1
48	1
49	1
50	1
51	1
52	2
53	2
54	2
55	3
56	3
57	4
58	2
59	2
60	1

**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.

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