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Discuss the following questions with your group. Use the data from your graph and Nisha's graph to answer the questions.
4. What was your most common sum? Tell how you know.
5. What is your least common sum? Tell how you know.
6. Where are the tallest bars on your graph? What does it mean when the bars are tall?
7. Where are the shortest bars on your graph? What does it mean when the bars are short?
8. The graph Nisha, Darius, and Carla made has taller bars in the middle. How does your graph compare?
9. Compare your graph to the other graphs in the class. How are they the same? How are they different?
10. Are the most common sums in the same place on all the graphs? What about the least common sums?


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## Student Guide

## Spinning Sums (SG pp. 21-23)

## Questions 1-13

I. * Answers will vary. 2 and 5; 5 and $2 ; 3$ and 4; 4 and 3
2.* 18
3.* spinning a sum of 7

The following answers to Questions 4-11 are based on the Spinning Sums graph in the Student Guide.
4. 11; the sum of 11 occurred seven times. The bar on 11 is the tallest.
5. 6,16 , and 17 ; the sums 6,16 , and 17 do not have bars on the graph.
6. In the middle; the sums in the middle are most common.
7. At either end; the sums near the ends are the least common.
8. Answers may vary.

9-10.* Answers may vary.
Similarities: The most common sums are clustered in the middle. The least common sums are clustered near both ends.
Differences: The most common sum for each group is not always the same, nor is the least common sum. Some groups may have 11 for the most common sum, while others have 10 or 12. Some groups have bars on every sum. Others have sums with no bars at all.
II. Answers will vary.
12.* Answers will vary. See the Lesson Guide for a sample student paragraph.
13. Possible response: The sum of 12 has seven number sentences because you can use the same numbers for 2 different number sentences by changing the order. So, you can have $3+9$ and $9+3,8+4$ and $4+8 ; 7+5$ and $5+7$. That makes six number sentences. Then there is one double, $6+6$, so there are seven number sentences in all.

## Student Activity Book

## Spinning Sums Lab (SAB pp. 37-42) Questions 1-2*

Answers, tables, and graphs will vary.

