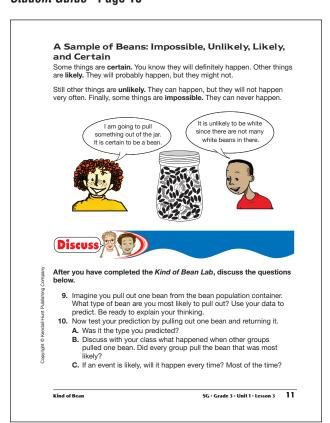
a container and count the number of each kind of bean. Use the data to predict which kind of bean is the most common and which is the least

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common in the bean population.

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* Answers and/or discussion are included in the lesson.

Student Guide

Kind of Bean (SG pp. 10–11) Questions 1–10

- **I.** Type of Animal (T) and Number of Animals (N)
- 2. Type of Animal
- 3. Number of Animals
- 4.* squirrels, river otters, armadillos
- **5.*** 230 spider monkeys 175 squirrels
 - 75 river otters
 - 200 armadillos
 - 50 jaguars
- **6.** The Robinsons scaled their graph by 25. They chose this so they could show all the data, since the smallest value was 50 for jaguars and the largest value was 230 for spider monkeys.
- **7.** spider monkeys are most common, jaguars are least common
- **8.** spider monkeys and armadillos are most common
- 9.*See lesson.
- 10.*See lesson.

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Student Activity Book

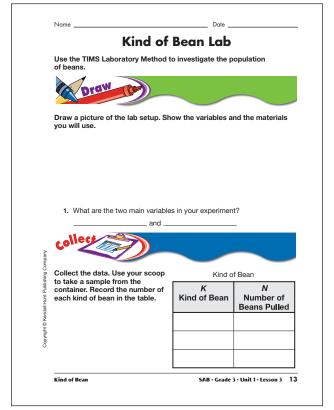
Kind of Bean Lab (SAB pp. 13–18) Questions 1–13

Answers to questions are based on the sample student picture and graph in lesson 3.

- **I.** Kind of Bean (*K*) and Number of Beans (*N*)
- 2. A. black bean
- **B.** 170 black beans
- **3. A.** navy bean
- **B.** 40 navy beans
- **4.** 130 more black beans than navy beans.

Answers will vary. One possible response: I used my math facts. I know that 17 - 4 = 13. So 170 - 40 = 130.

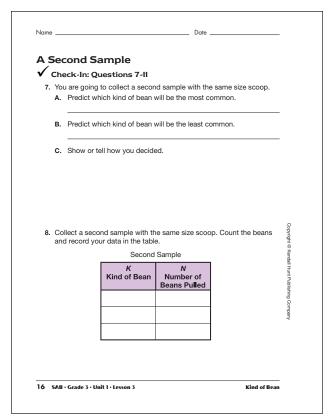
- **5.** 280 beans in the sample
- **6.** Explanations will vary. One possible response: Add the number of beans recorded in the data table.



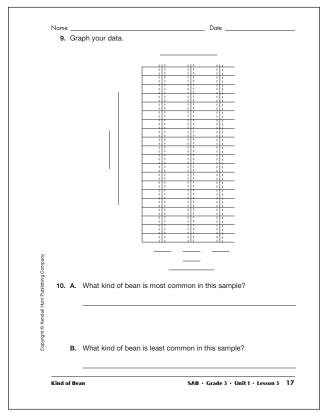
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Answe	or the following questions using your data table and graph.
2. /	. What kind of bean is most common in your sample?
E	3. How many do you have of this kind of bean?
	. What kind of bean is least common in your sample?
E	How many do you have of this kind of bean?
5. \	What is the total number of beans in your sample?
6. 5	Show or tell how you found the answer to Question 5.

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Name	Date	
11.	Were your predictions in Question 7 correct? Why or why not?	
Por	oulation Predictions	
12.	Use your data to make predictions about the bean population (all of the beans in the class container). Predict which bean is the most common and which bean is the least common. Tell why you think so.	
13.	Suppose you use a much larger scoop to take a sample. A. How will the data in your data table change?	Copyright @ Kendal
	B. How will your graph change?	Copyright @ Kendall Hunt Publishing Company

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*Answers and/or discussion are included in the lesson.

- Answer Key Lesson 3: Kind of Bean
- 7. A.* black bean B.* navy bean
 - C.* Explanations will vary. One possible response: Since 170 black beans were pulled the last time and only 40 navy beans were pulled, I think that will happen again. I think maybe there are more black beans in the container.
- **8.** Answers will be based on the second sample.
- **9.** Graphs will vary but should accurately show the data in the data table.
- **10.** Answers will be based on the second sample.
- II.* Answers will vary.
- **12.** Answers will vary. One possible response: The most common bean in the container is the black bean. The least common bean is the navy bean. In the data from my sample, the number of black beans is about twice the number of pinto beans and there are about four times as many black beans as navy beans. The bean population in the container is similar to that of my sample. A possible recipe is: 200 black beans, 100 pinto beans, and 50 navy beans.
- **13. A.*** Answers will vary. One possible response: The number of each type of bean in the sample would increase. The most common kind of bean in the sample would probably be the black bean and the least common, the navy bean.
 - **B.*** The bars would all be taller, but the black bean bar would still be the tallest. The navy bean bar would still be the shortest.

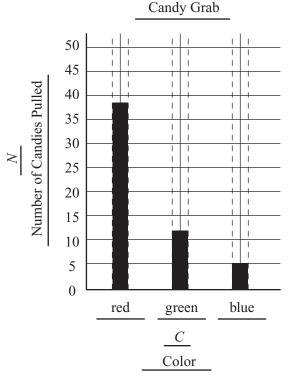
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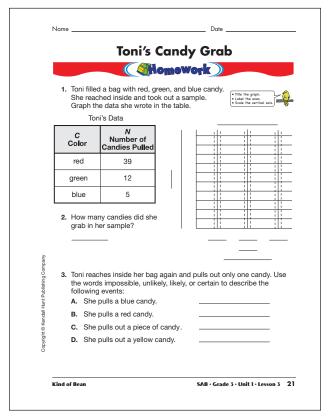
Toni's Candy Grab (SAB p. 21) Questions 1–3

- **I.** Look for the following:
 - title of graph (e.g., Sample of Candy, Handful of Candy, Sampling);
 - labeled axes (Color on the horizontal axis along with the three colors, red, green, and blue; Number of Candies Pulled on the vertical axis); an appropriate scale on the vertical axis;
 - the heights of the bars should match the data in the table.

Possible Graph:



- **2.** 56 candies
- 3. A. unlikely
 - **B.** likely
 - C. certain
 - **D.** impossible



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