### 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.

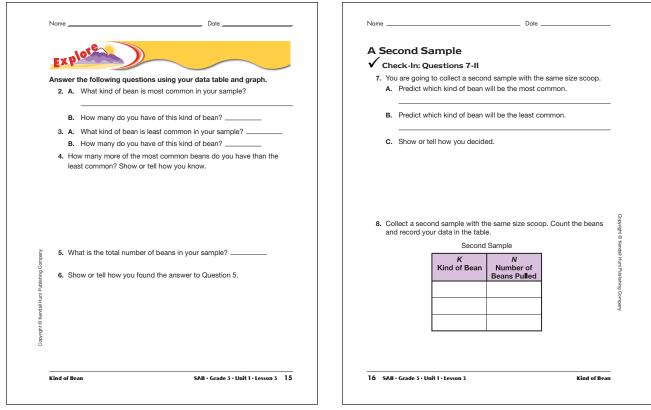
- I. Kind of Bean (*K*) and Number of Beans (*N*)
- **2. A.** black bean **B.** 170 black beans
- **3. A.** navy bean **B.** 40 navy beans
- **4.** 130 more black beans than navy beans.

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.

Kind of	Bean Lab	
Use the TIMS Laboratory Method t of beans.	o investigate the p	opulation
Draw CP		
Draw a picture of the lab setup. Sh	ow the variables a	nd the materials
you will use.		
1. What are the two main variable		t?
and	s in your experimen	t? 
and		.t? 
and		t? 
and		
collect	Kind o	f Bean N Number of
and	Kind o	f Bean N Number of
and	Kind o	f Bean N Number of

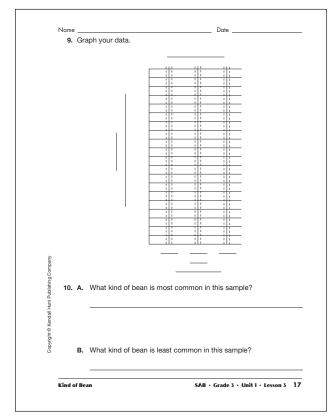
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#### Answer Key • Lesson 3: Kind of Bean



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	B. How will your graph change?	Copyright @ Kendall Hunt Publishing Company
13.	Suppose you use a much larger scoop to take a sample. A. How will the data in your data table change?	Copyright @ Kends
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.	
Pop	oulation Predictions	
11.	were your predictions in Question / correct/ why or Why hot?	
	Were your predictions in Question 7 correct? Why or why not?	

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

- **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.

# Answer Key • Lesson 3: Kind of Bean

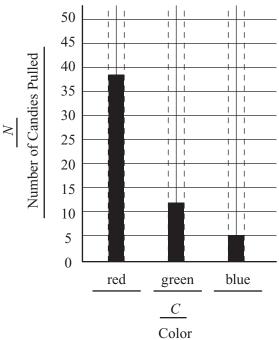
## Toni's Candy Grab (SAB p. 21) Questions 1–3

**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.

50 | 1 | 1 | 1 | 1

Possible Graph:



	Toni's	omewo			
		ollieme			
She r	filled a bag with red, gr reached inside and too h the data she wrote ir	k out a sam	ple.	• Title the graph. • Label the axes. • Scale the vertical axis.	
	Toni's Data				
C Color	<i>N</i> Number of Candies Pu <b>ll</b> ed				
red	39				
green	12				
blue	5				
	many candies did she in her sample?				
the w follov	reaches inside her bag rords impossible, unlik ving events: she pulls a blue candy.				
<b>B.</b> S	B. She pulls a red candy.				
<b>c.</b> S	c. She pulls out a piece of candy.				
D. S	the pulls out a yellow o	andy.			

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56 candies
A. unlikely
B. likely
C. certain
D. impossible