## 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.


Student Activity Book - Page 13
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## A Second Sample

$\sqrt{ }$ Check-In: Questions 7-11
7. You are going to collect a second sample with the same size scoop.
A. Predict which kind of bean will be the most common.
B. Predict which kind of bean will be the least common.
C. Show or tell how you decided.
8. Collect a second sample with the same size scoop. Count the beans and record your data in the table.


Kind of Bean


Student Activity Book - Page 17


Student Activity Book - Page 18
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.

I2. 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.
*Answers and/or discussion are included in the lesson.
2 TG • Grade 3•Unit 1•Lesson 3•Answer Key

## 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
