Name _____ Date _____

Marshmallows and Containers

1. I estimate that there are _____ marshmallows in the tall container.

Draw

2. Draw a picture of the experiment setup. Be sure to include the two main variables.

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Marshmallows and Containers (SAB pp. 227–231)
Questions 1–13

1.* Estimates will vary.

2.* See Figure 1 in Lesson 2 for a sample drawing.

3.* See Figure 2 in Lesson 2 for a sample data table.

4. Responses will vary.

5.* See Figure 3 in Lesson 2 for a sample graph.

Name _____ Date _____

Collect

3. Make a data table.

_____

C	N
Container	Number of _____ *unit*

4. Look at your estimate in Question 1. Was your estimate close to the number of marshmallows in the tall container? Explain.

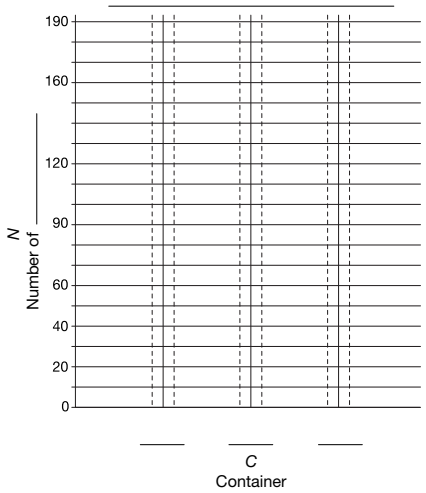**228**   SAB · Grade 2 · Unit 5 · Lesson 2   Marshmallows and Containers

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Name _____ Date _____

Graph

5. Make a graph of your data.

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

6.* Number of Marshmallows and Type of Container

7. Descriptions will vary.

8. Descriptions will vary.

9.* Using the sample data, the tub. Possible response: the tub has the tallest bar on the graph.

10.* The container that holds the most marshmallows, the tub (170 marshmallows). See Figure 3.

11.* The container that holds the least number of marshmallows, the cylinder (100 marshmallows). See Figure 3.

12. Answers for data collected in class will vary. Students may use subtraction on a 200 Chart or counting up strategies on the graph to find the difference between the two containers. 170 – 100 = 70 marshmallows for the sample data.

13. The containers in order from least to greatest volume for the sample data are the cylinder, lid, and tub.

Name _____ Date _____

Explore

Use the data table, graph, a number line, or *200 Chart* to answer the questions.

6. What are the two main variables in this experiment?

_____

7. Which container is the tallest? _____

8. Which container is the widest? _____

9. Which container holds the most marshmallows? How do you know?

_____

_____

10. Which container has the largest volume? How do you know?

_____

_____

11. Which container has the smallest volume? How do you know?

_____

_____

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Name _____ Date _____

12. How many more marshmallows does the container with the largest volume hold than the container with the smallest volume? Show or tell how you know.

13. List your containers in order from the smallest volume to the largest volume.

_____

_____

_____

Marshmallows and Containers Feedback Box	Expec-tation	Check In	Comments
Estimate a quantity using 10 as a benchmark. [Q# 1, 4]	E4		
Read and write numbers. [Q# 3, 5]	E5		
Solve addition and subtraction word problems. [Q# 12]	E8		
Measure volume of containers using nonstandard units. [Q# 3]	E10		
Make a data table and a bar graph to find information about a data set. [Q# 3, 5]	E11		
Read a data table and bar graph to find information about a data set. [Q# 9, 13]	E12		
Make predictions and generalizations about a data set using a data table and graph. [Q# 10–11]	E13		

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

Name _____ Date _____

Container Problems

Use a number line or *200 Chart* to help solve these problems.

Container D holds 62 beans.

Container E holds 43 beans.

Container F holds 29 beans.

1. Which container has the largest volume? How do you know?

2. Which container would hold the most water?

_____

3. A. If the beans from Container D are poured into empty Container F, will all the beans fit?

_____

B. If all the beans will not fit, how many beans will be left over? Show or tell how you know.

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Container Problems (SAB pp. 233–236)
Questions 1–7

1. Container D. It holds the most beans.

2. Container D. If it holds the most beans, it would hold the most water.

3. **A.** No

   B. 33 beans will be left over.
   Possible response: I used the *200 Chart* to subtract.

4. No; Possible response: When you add the beans in Container E and Container F together, there are 72 beans which is more beans than Container D will hold.

5. Container F, Container E, Container D

6. No; Answers will vary. Possible response: If I use my number line to find out how many beans are in the tall, thin containers, I would count by 30s and then subtract three.
   $90 - 3 = 87$ beans, which is more than Container D can hold.

Name _____ Date _____

4. The princess put the beans in Container E together with the beans in Container F. Will they fit into an empty Container D? Show or tell how you know.

5. List the containers in order from the one with the smallest volume to the largest volume.

_____

_____

_____

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Name _____ Date _____

6. The prince filled Container F with beans and poured them into Container D. He did this three times.

Container F holds 29 beans.

Container D holds 62 beans.

Will Container D hold all of these beans? Show or tell how you know.

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