


Name _____ Date _____

Marshmallows and Containers

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



Draw

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

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Marshmallows and Containers SAB • Grade 2 • Unit 5 • Lesson 2 **227**

Student Activity Book - Page 227


Student Activity Book

Marshmallows and Containers (SAB pp. 227–231)

Questions 1–13

- * Estimates will vary.
- * See Figure 1 in Lesson 2 for a sample drawing.
- * See Figure 2 in Lesson 2 for a sample data table.
- Responses will vary.
- * See Figure 3 in Lesson 2 for a sample graph.

Name _____ Date _____



Collect

- Make a data table.

C Container	N Number of _____ <small>unit</small>


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

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228 SAB • Grade 2 • Unit 5 • Lesson 2 Marshmallows and Containers

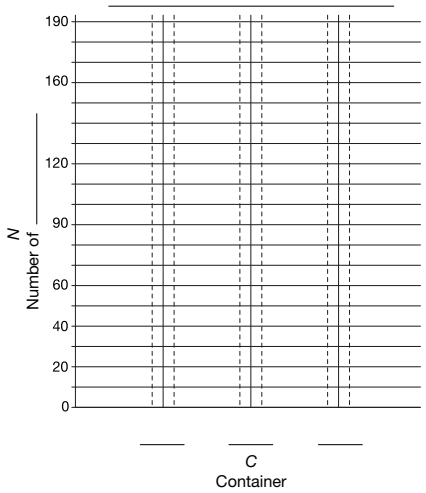
Student Activity Book - Page 228

Name _____ Date _____



Graph

- Make a graph of your data.



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Marshmallows and Containers SAB • Grade 2 • Unit 5 • Lesson 2 **229**

Student Activity Book - Page 229

* 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 _____



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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230 SAB • Grade 2 • Unit 5 • Lesson 2 Marshmallows and Containers

Student Activity Book - Page 230

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	Expectation	Check In	Comments
Estimate a quantity using 10 as a benchmark. [Q# 1, 4]	E4	<input type="checkbox"/>	
Read and write numbers. [Q# 3, 5]	E5	<input type="checkbox"/>	
Solve addition and subtraction word problems. [Q# 12]	E8	<input type="checkbox"/>	
Measure volume of containers using nonstandard units. [Q# 3]	E10	<input type="checkbox"/>	
Make a data table and a bar graph to find information about a data set. [Q# 3, 5]	E11	<input type="checkbox"/>	
Read a data table and bar graph to find information about a data set. [Q# 9, 13]	E12	<input type="checkbox"/>	
Make predictions and generalizations about a data set using a data table and graph. [Q# 10-11]	E13	<input type="checkbox"/>	

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Marshmallows and Containers SAB • Grade 2 • Unit 5 • Lesson 2 **231**


Student Activity Book - Page 231

*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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Marshmallows and Containers
SAB • Grade 2 • Unit 5 • Lesson 2
233

**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.

Student Activity Book - Page 233

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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234
SAB • Grade 2 • Unit 5 • Lesson 2
Marshmallows and Containers


Student Activity Book - Page 234

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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Marshmallows and Containers
SAB • Grade 2 • Unit 5 • Lesson 2
235

Student Activity Book - Page 235

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7. Possible response: I disagree with Joe. You can't tell the volume of a container just by looking at its height. Container F holds 29 beans and Container D holds 62 beans, so Container D has a greater volume.

Name _____ Date _____

7. Joe Smart looked at the containers in Question 6. He thinks Container F has a greater volume than Container D because Container F is taller than Container D. Do you agree? What would you tell Joe?

Container Problems Feedback Box	Expectation	Check In	Comments	
Solve addition and subtraction word problems (e.g., adding to, putting together, and comparing) involving two or three whole numbers using number lines, number sentences, or 200 Chart. [Q# 3–4, 6]	ES			
	Yes ...	Yes, but ...	No, but ...	No ...
MPE1. Know the problem. I read the problem carefully. I know the questions to answer and what information is important. [Q# 3–4, 6]				
MPE2. Find a strategy. I choose good tools and an efficient strategy for solving the problem. [Q# 3–4, 6]				
MPE5. Show my work. I show or tell how I arrived at my answer so someone else can understand my thinking. [Q# 3B, 4, 6]				

236 SAB • Grade 2 • Unit 5 • Lesson 2 Marshmallows and Containers

Student Activity Book - Page 236

Teacher Guide

Marshmallows and Containers Problems (TG)

Homework

Questions 1–3

67. Answers will vary. Possible response: I would find 103 on the 200 Chart. Then I would move by tens to the next row six times until I got to 163. Then I would move seven ones to 107.
60. Answers will vary. Possible response: I would find 170 on the 200 Chart. Then I would move back a row of ten six times.
- No. Answers will vary. Possible response: I could estimate how many beans are in Containers A and C all together. If I just add the hundreds together, I have 200 marshmallows. 200 marshmallows is more than Container C will hold.

Name _____ Date _____

Marshmallows and Containers Problems

Homework

Michael and Johnny collected the data below. Use their data to answer the following questions.

Marshmallows and Containers	
C Container	N Number of Marshmallows unit
A	103
B	170
C	110

- How many more marshmallows can Container B hold than Container A? Show or tell how you know.
- How many more marshmallows can Container B hold than Container C? Show or tell how you know.
- Can the marshmallows from Containers A and C together fit into an empty Container B? Show or tell how you found your answer.

Homework Master TG • Grade 2 • Unit 5 • Lesson 2

Teacher Guide