


Name _____ Date _____

Rolling Along in Centimeters



1. Draw a picture to show how you will set up the lab. Be sure to show the two main variables.

2. What are the two main variables in this lab?

3. What should stay the same each time the car is rolled?

4. What question are you trying to answer?

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**Rolling Along in Centimeters
(SAB pp. 209–213)**

Questions 1–10

- 1.* See Figure 5 for a sample drawing.
2. car, distance rolled
3. Possible response: ramp height, starting line, units, how we measured
4. Which car rolls the farthest?
- 5.* See sample data table in Figure 7.
- 6.* See sample bar graph in Figure 8.

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5. Work with your group to test each car. Record your data in the table below.

Distance Cars Roll


T Type of Car	D Distance Rolled			
	Distance in _____ <small>Unit</small>			
	Trial 1	Trial 2	Trial 3	Median
Sample				

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✓ **Check-In: Question 6**

6. Make a bar graph of your data.

- 7. **A–C.** Answers will vary.
- 8. No. The data from all the other students is needed.
- 9. Linda forgot to label her answer: 132 cm.
- 10. **A.** 175 cm
B. 65 cm

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Use the data table and graph to answer each question. Use a 200 Chart or number line.

7. **A.** Which car rolled the longest distance?

$D =$ _____

B. Which car rolled the shortest distance?

$D =$ _____

C. How much farther did the car in Question A roll than the car in Question B? Show or tell how you found your answer.

8. You want to see which car is the best roller in the class. Can you tell using only your group's data table? Why or why not?

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9. The teacher asked Linda how far her car rolled. "It rolled 132," Linda said. What is wrong with Linda's answer?

10. A. Jacob's car rolled 150 cm. Maya's car rolled 25 cm farther. How far did Maya's car roll?

B. Shannon's car rolled 90 cm. Ming's car rolled 25 cm less. How far did Ming's car roll?

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Answer Key • Lesson 6: Rolling Along in Centimeters

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Solve these problems by looking at the graph of John's Data. You may use your 200 Chart, number line, or other tools to help you.

- Michael said the green car went farther than the red car, blue car, and the yellow car all added together. Is he right? Show or tell how you know.
- Linda said the yellow car rolled more than twice as many centimeters as the red car rolled. Is she right? Show or tell how you know.

✓ **Check-In: Questions 3-10**

- How far did the yellow car roll?
- How far did the blue car roll?
- How much farther did the green car roll than the yellow car? Show or tell how you know.
- How much farther did the yellow car roll than the blue car? Show or tell how you know.

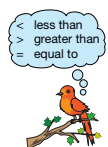
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Name _____ Date _____

Compare the distances the cars rolled.

- 120 cm ○ 155 cm
- 35 cm ○ 155 cm - 120 cm
- 50 cm ○ 35 cm



- How many cars rolled farther than 1 meter?

 - Which ones? _____
 - How many centimeters more than a meter did each of the cars in Question 10B roll? Show or tell how you know. You can write on the graph as part of your answer.

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

3 TG • Grade 2 • Unit 4 • Lesson 6 • Answer Key

John's Data (SAB pp. 215–217) Questions 1–10

Distance Cars Roll

T Type of Car	D Distance in Centimeters
red car	50
blue car	35
yellow car	120
green car	155

- * Michael is wrong. The red, blue, and yellow cars rolled 205 cm; $50 + 35 + 120$.
- * Linda is right. 120 cm is more than twice 50 cm.
- 120 cm
- 35 cm
- 35 cm; Possible response: the green car rolled 155 cm; the yellow car rolled 120 cm; I found 120 on the 200 Chart and skip counted by tens and then ones.
- 85 cm; Possible responses: I looked at the graph and skip counted by 10 down from 120 to 35; I used data from the data table and my 200 Chart to count on by tens and ones from 35 to 120.
- <
- =
- >
- 2 cars
 - yellow and green cars
 - yellow car: 20 cm more than a meter; green car: 55 cm more than a meter
Answers will vary. Students need to identify 1 meter as 100 centimeters. Possible response: I know 1 meter is 100 centimeters. I found the 100 cm distance on the graph and counted up by tens from 100 to 120 for the yellow car and from 100 to 150 for the green car and added 5 more because the bar stops between 150 and 160.

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