Rolling Along in Centimeters

✏️ Draw

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?

_____

Collect

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 _____ *Unit*			
	Trial 1	Trial 2	Trial 3	Median
Sample				

Graph

✓ Check-In: Question 6

6. Make a bar graph of your data.

Explore
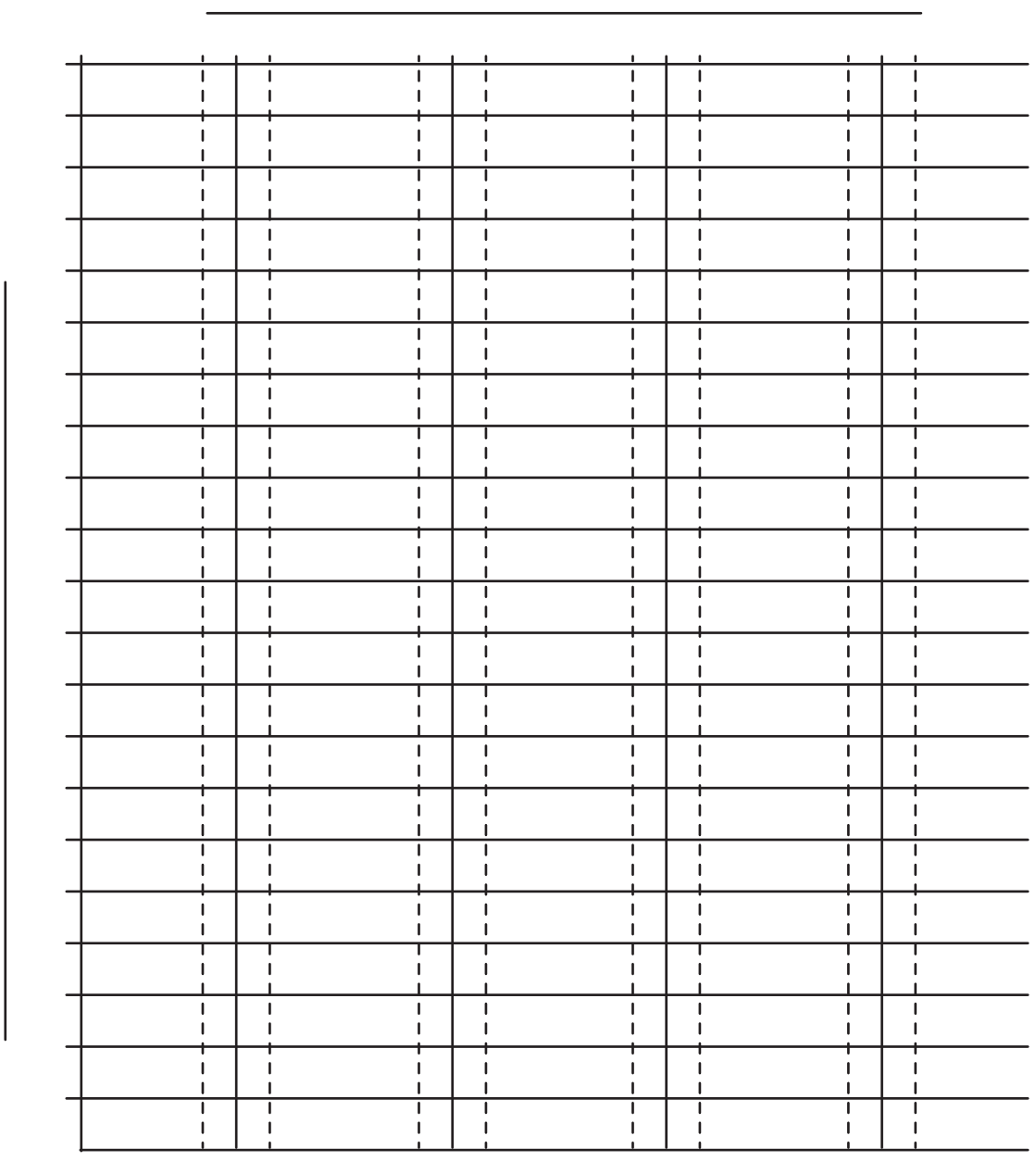
Use the data table and graph to answer each question. Use a _200 Chart_ or number line.

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?

_____

_____

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?