

Name \_\_\_\_\_



## Puff Mobile Derby: Data-Recording Sheet

**Problem:** What is the average rate of speed for a puff mobile traveling 5 m?

### Materials:

- Tape to mark starting and ending points
- Timer
- Puff Mobile

### Part 1: The race

#### Procedure:

1. Place the front of your car behind the starting line.
2. Using the force of your team blowing on the car, move your car 5 m.
3. Record the amount of time in seconds that it takes to move your car 5 m.
4. Calculate your speed in cm/s for trial 1.
5. Repeat steps #1–4 for a total of **five trials**.
6. Calculate the **total distance** and **total time** to determine **total average speed**.

Trial number	Distance	Time	Speed (cm/s) Speed = distance ÷ time
Trial 1	5 m = 500 cm		
Trial 2	5 m = 500 cm		
Trial 3	5 m = 500 cm		
Trial 4	5 m = 500 cm		
Trial 5	5 m = 500 cm		
TOTAL			

### Part 2: Graph your results

1. On the back of this paper, graph the class results for average rate of speed.
2. Label your  $x$  axis.

