

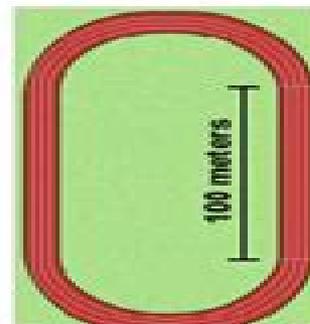
Name: _____ Date: _____

Student Exploration: Distance-Time and Velocity-Time Graphs

[NOTE TO TEACHERS AND STUDENTS: This lesson was designed as a follow-up to the Distance-Time Graphs Gizmo. We recommend you complete that activity before this one.]

Vocabulary: displacement, distance traveled, slope, speed, velocity

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)
Dora runs one lap around the track, finishing where she started. Clark runs a 100-meter dash along the straight side of the track.



- Which runner traveled a greater distance? Dora
- Which runner had a greater change in position, start to finish?
Clark

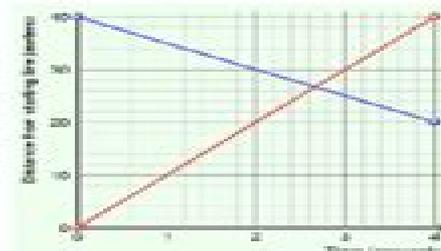
Gizmo Warm-up

The *Distance-Time Graphs* Gizmo shows a dynamic graph of the position of a runner over time. The *Distance-Time and Velocity-Time Graphs* Gizmo includes that same graph and adds two new ones: a velocity vs. time graph and a distance traveled vs. time graph.

The graph shown below (and in the Gizmo) shows a runner's position (or distance from the starting line) over time. This is most commonly called a *position-time graph*.

Check that the **Number of Points** is 2. Turn on **Show graph** and **Show animation** for both **Runner 1** and **Runner 2**.

- Drag the points to create the graph shown to the right.
 - Runner 1's** line (the red one) should have endpoints at (0, 0) and (4, 40).
 - Runner 2's** line (the blue one) should have endpoints at (0, 40) and (4, 20).



Click the green **Start** button on the stopwatch. Watch the two runners carefully. In what two ways are the runners' motions different? They're opposite direction, Runner 1 runs the longer distance than runner 2. Runner 1 going forwards the right, runner 2 going backwards to the left.

Activity A:	<u>Get the Gizmo ready:</u>	40
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Distance Time Graphs Gizmo Answers Key

Arturo Cuomo



Distance Time Graphs Gizmo Answers Key:

Immerse yourself in heartwarming tales of love and emotion with Explore Love with its touching creation, **Distance Time Graphs Gizmo Answers Key** . This emotionally charged ebook, available for download in a PDF format (*), is a celebration of love in all its forms. Download now and let the warmth of these stories envelop your heart.

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