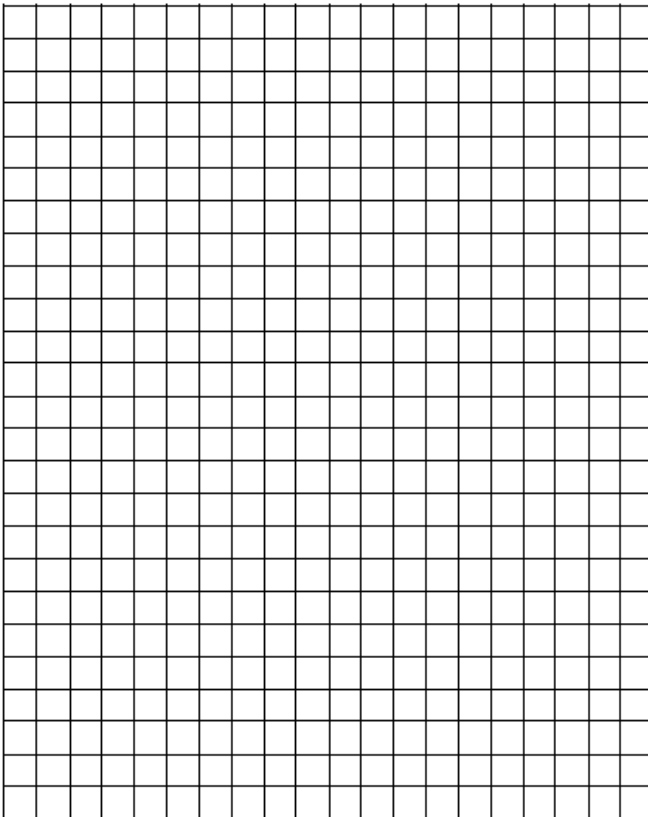


# Run!

## Warm Up

Several students in Mr. Hall's class collected the following data representing the height of a growing seedling over several days. Plot the data on a coordinate plane and find the line of best fit to create a distance-time graph. From the distance-time graph, calculate the slope of the line of best fit.

Day	Height (cm)
1	2
2	2.5
3	3.5
4	3.5
5	4.5
8	7
9	8
10	8.5
11	8.5
12	9



How can you use the graph above to find the average growth rate of the seedling?

# Run!

## Data Record and Analysis Sheet

Record the data for your three trials in the table then create a distance-time graph for each trial. You should graph one line for each trial using the origin (0,0) as one point and your time-distance data (seconds, meters) as your second point. The result will be one coordinate plane with three lines beginning at the origin. Be sure to label the axes and graphs with titles.

Travel Mode	Time (seconds)	Distance (meters)	Slope (m/s)
Walk			
Run			
Other:			

### Summarize Your Findings

1. Use your distance-time graphs to compare the slopes for each of your trials and describe your observation.

2. Describe what the slope represents in this activity.

3. If you looked at all the distance-time graphs that your classmates created, what would you look for to find out who is a very fast runner?