Name	
Date	Block

## Activity 8-1C Graphing motion data

Imagine you recorded the position of the lawnmower at 5 s time intervals as the groundskeeper cut the grass on your school's football field. In this activity, you will sketch a position-time graph and draw a best-fit line that represents the given data.

## What to Do

- 1. With a ruler, draw an x-axis and a y-axis on a piece of graph paper. Label the y-axis Position. Be sure to include the units (m) and the direction [N]. Label the x-axis Time. Be sure to include the unit (s). Scale the axes so that the graph takes up at least half the page.
- 2. Plot the data from the table on your graph.
- 3. Draw a best-fit straight line through your plotted data points. Give your graph a title.

Time (s)	Position (m [N])
0	0
5	14
10	27
15	34
20	50
25	64
30	73
35	88
40	100

## What Did You Find Out?

1.	(a)	Did your best-fit straight line go through all your plotted points?
	(b)	What does your answer to (a) indicate about the motion of the lawnmower?

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