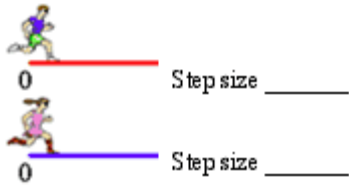



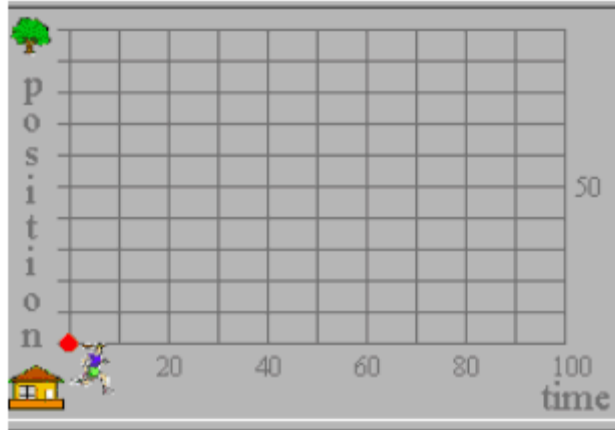
# Runners, Take Your Mark! (Single Runner)

NAME \_\_\_\_\_

- Set your runner at the zero position and ready to run in the forward direction from left to right. Circle the runner you are using, either male or female, and record his/her step size. Circle the runner you are using, either male or female, and record his/her step size.



Click on the **slow run button**  and record where your runner is after each step on the graph. Click ten or more times (until you see the slope of the line). Use a blue pen/pencil to record the girl's slope and red pen/pencil to record the boy's slope. Indicate the step size above each slope.



- Think about what the slope on the graph may look like when you change the step size of your runner. On the graph above, draw the slope for your runner at 5- and 10-step sizes. (Use 2 colors.) Sketch what you think the lines will look like before completing the T-table below.
- Place the runner at the starting position but change the step size to complete the following T-table. Use the first table to record your predictions and the second table to record your results after running the simulation. Start with a step size of 1, and progress through the step size of 15.

PREDICTION		RESULTS	
Step Size	Finish Time	Step Size	Finish Time
1		1	
2		2	
3		3	
4		4	
5		5	
6		6	
7		7	
8		8	
9		9	
10		10	
11		11	
12		12	
13		13	
14		14	
15		15	