

Name: _____ Date: _____

Interpreting Tables

The table below lists information about Nikki's motion on the playground. Using the information in the table answer the questions below.

Time (s)	Total Distance Traveled (m)	Horizontal Instantaneous Speed (mps)	Current Direction
5	.8	1.0	→
10	5.5	2.9	→
15	12.5	1.0	←
20	16.4	0.6	→
25	19.8	0.7	→
30	21.9	1.3	←
35	25.1	0.2	←
40	27.9	0.6	←
45	31.1	0.0	↑
50	35.9	2.0	↙

1. What is the total distance Nikki had traveled at 30 seconds? _____
2. At what time did Nikki reach the maximum distance she traveled? _____
3. What direction was Nikki traveling 40 seconds after starting? _____
4. What was Nikki's horizontal instantaneous speed 10 seconds after starting? _____
5. What was Nikki's velocity 25 seconds after starting? _____
6. What was Nikki's velocity 40 seconds after starting? _____
7. At what time had Nikki traveled more than half of her total distance? _____
8. Between what times does Nikki's speed increase the fastest? _____
9. Between what times does Nikki move the most? _____
10. Between 45 and 50 seconds how far does Nikki travel? _____

11. What was Nikki's average speed for the entire game? _____

12. At what time is Nikki's horizontal speed 0 mps? _____

Graphing Speed

Using the data from the table above, graph Nikki's speed over time. Make sure to label the axis on the graph.



MOTION: DATA MATCH

Based on the information in the table, what activity do you think Nikki was doing on the playground? Use data from the table to explain your answer.