

Graphing of Time and Distance

Name _____

Date _____

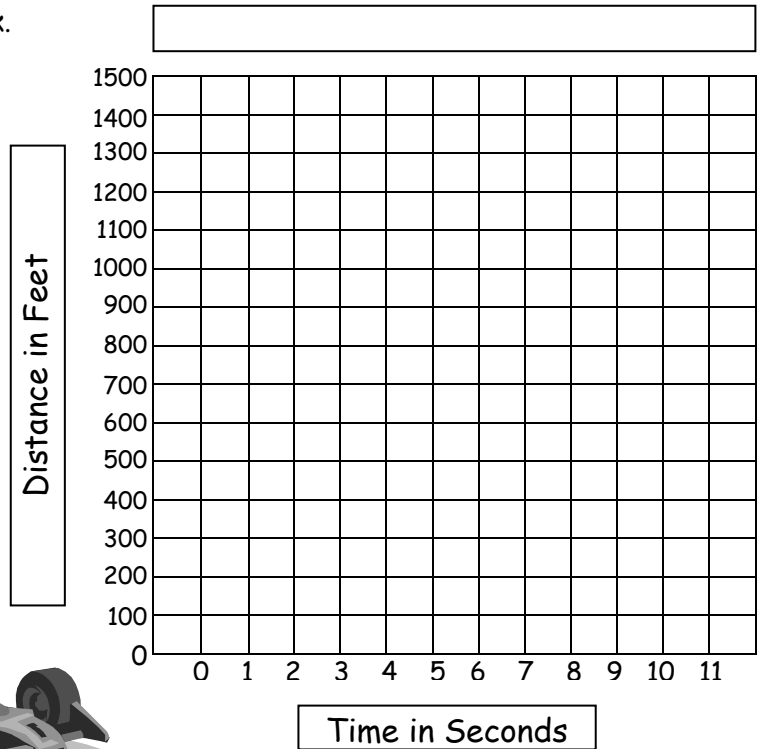
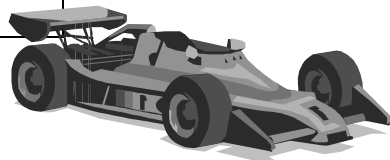
Period _____

Standard: Students know how to interpret graphs of position versus time and graphs of speed versus time for motion in a single direction.

Use the data and draw a line graph in the graph paper box to the right. Answer the questions about the graph.

Graph of a red racecar as it drives around an oval track.

Time in Seconds	Distance in Feet
0	0
1	131
2	262
3	393
4	524
5	655
6	786
7	917
8	1048
9	1179
10	1310
11	1441



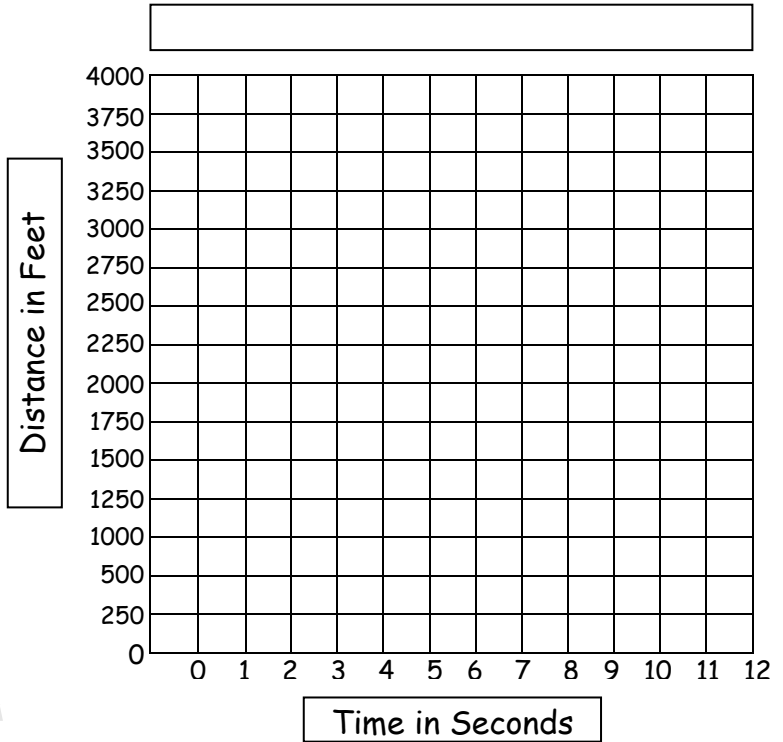
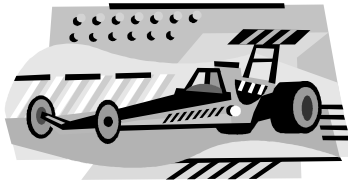
1. What does the line look like on the graph? _____

2. Calculate the speed of the car after 2 seconds? _____
3. Calculate the speed of the car after 7 seconds? _____
4. Calculate the speed of the car after 11 seconds? _____
5. Compare and contrast the speeds from #2, #3, and #4 above. _____

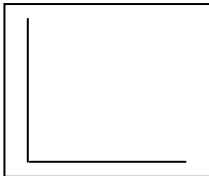
6. What can you conclude about the speed of the car when you have a line graph that looks like this one? _____

Graph of a blue dragster as it races down the track.

Time in Seconds	Distance in Feet
0	0
1	62
2	186
3	372
4	620
5	930
6	1302
7	2232
8	2728
9	3224
10	3720



1. What does the line look like on the graph? _____
2. Calculate the speed of the car after 3 seconds? _____
3. Calculate the speed of the car after 6 seconds? _____
4. Calculate the speed of the car after 9 seconds? _____
5. Compare and contrast the speeds from #2, #3, and #4 above. _____
6. What can you conclude about the speed of the car when you have a line graph that looks like this one? _____
7. What does a line graph of a car that is driving a **constant speed** look like? _____
8. What does a line graph of a car that is **accelerating** look like? _____
9. What would a line graph of a car that is **stopped** look like?


10. What would a line graph of a car that is **slowing down** look like?
