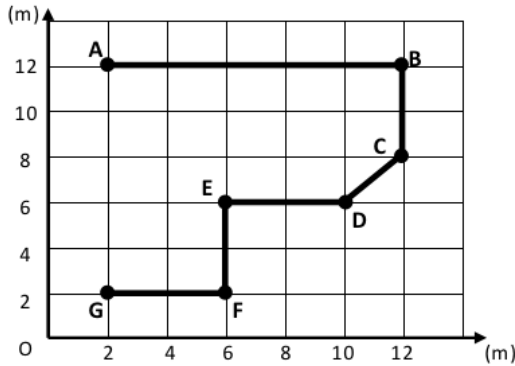


# Motion Quiz Review

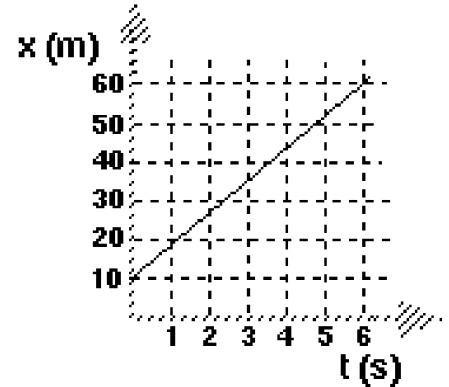
Name \_\_\_\_\_

1. Jake starts at point A and ends at point G.



- What is Jake's distance from A-B?
- What is Jake's total distance?
- What is Jake's displacement?

2. Consider the Position vs. Time graph below.



- What was the total distance traveled?
- How long was the object traveling?
- What was the average speed of the object?

3. What is the average speed of a train that travels 800km in 1.5 hours?

4. What is the distance traveled by a helicopter that goes 50 m/s for 90 sec?

5. Convert your answer for number 4 to miles (mi).

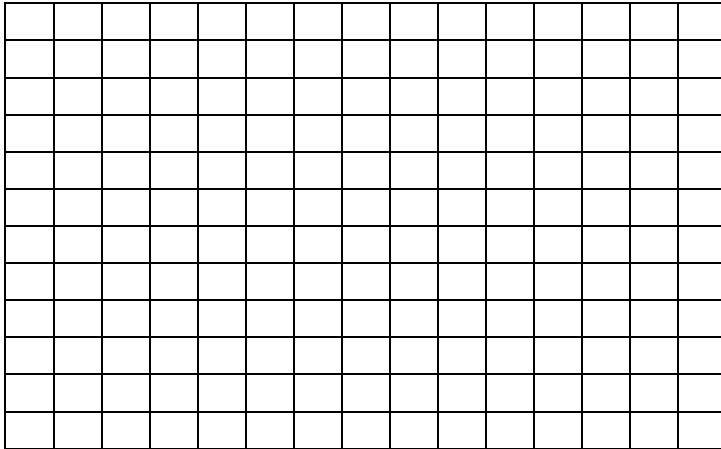
6. What is the average speed of a car that travels 35 mi/hr for 2 hours and then 50 mi/hr for .5 hours?

# Motion Quiz Review

Name \_\_\_\_\_

7. Graph the following information. Use a different color for the control and the variable. Be sure to label everything properly.

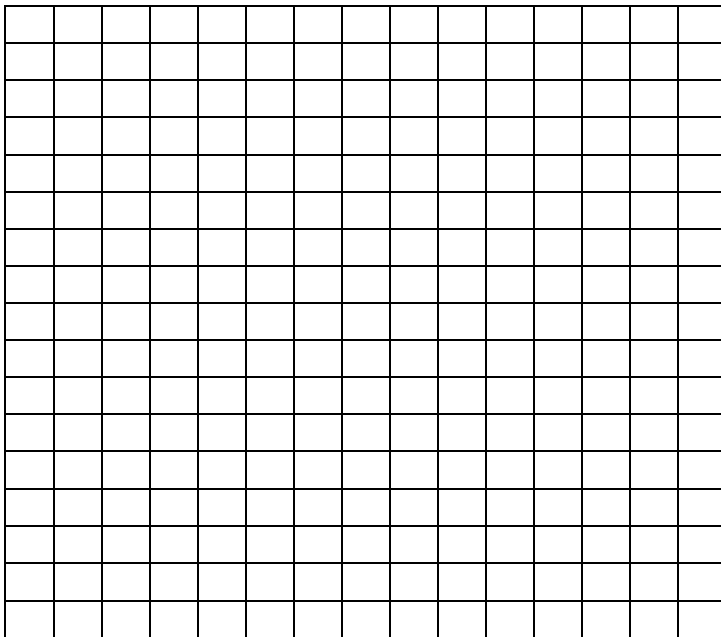
a.



Time(s)	Control Position(m)	Variable Position(m)
0	2	22
3	6	18
6	10	14
9	14	10
12	18	6
15	22	2

What variable change could have caused this graph?

b.



Time(s)	Control Position(m)	Variable Position(m)
2	0	-5
4	1.5	-3
6	3	-1
8	4.5	1
10	7	3
12	8.5	5
14	10	7

What variable change could have caused this graph?

Review the graphs from the **Constant Velocity Car Lab Graphs** worksheet. You should be able to describe the variable that could have caused the change in motion. You should also be able to describe the motion for each segment of a position vs. time graph.