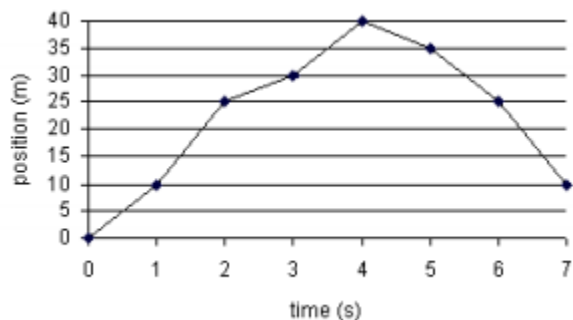


Name:

1. What is the speed of a truck that travels 10000 m in 400 seconds?
2. What distance is traveled by a police car that moves at a constant speed of 30 m/s for 300 seconds?
3. What distance would be covered in 600 seconds by a train that travels at a constant speed of 50 m/s?
4. What is the average speed (in km/hr) of a commercial jet that travels from New York to Los Angeles (4800 km) in 6.00 hours?
5. Find the answer to #4 in m/s. (1000 m = 1 km, 60 min = 1 hr, 60 second = 1 min)
6. A car is traveling at an average speed of 70 m/s. How many m would the car travel in 3600 seconds?
7. A car moved 50 km to the North, 20 km to the South, and then 40 km to the North. What is its distance? What is its displacement?
8. A car moved 20 km East and 70 km West and then 20 km East. What is the distance? What is the displacement?
9. A car moved 20 m East and 60 m West in 20 seconds. What is its average speed? What is its average velocity?
10. How far will car travel in 9 seconds at 20 m/s?
11. A car moved 3 km East and 4 km North. What is the distance? What is its displacement?

The below graph represents the position of a mouse at a given time.



12. Find the following:

- Distance traveled:
- Displacement:
- Average speed:
- Average velocity:

13. A car moved 60 km East and 90 km West. What is the distance? What is the displacement?

14. What is the average velocity of a car that moved 40 m East and 80 m West in 200 seconds? What was the average speed of the car?

15. How far will a car travel in 25 min at 12 m/s?

CHALLENGE PROBLEM: A rabbit and a turtle are practicing for their big race. The rabbit covers a 30. m practice course in 5.0 seconds, the turtle covers the same distance in 120 seconds. If the actual race is run on a 96 m course, by how many seconds will the rabbit beat the turtle?