

Graph My Movement

In this simulation activity, 1 unit is equal to 1 meter.

Answer the following questions using the simulation lab. For each question, draw and label the vectors you used in the simulation.

1. You are going for a drive to buy groceries from a corner store few blocks away from your house. However, because of some construction in your area, you have to take a detour. You end up driving 40 meters to the north, 33 meters to the east and 40 meters to the south just to buy groceries.
 - a. How far you end up driving to get to the corner store?
 - b. How far is the corner store from your house?
2. A football player ran 45 meters to the north, and then 28 meters to the east. He decided to walk 25 meters to the south, and then continue jogging 15 towards the west. Finally, he ran another 20 meters to the south?
 - a. How far did the athlete traveled?
 - b. How far is the athlete from his original location?
3. A remote control car traveled 25 meters east, then 35 meter north, then 15 meters west, then 30 meters south, then 10 meters west and finally 5 meters south.
 - a. How far did the remote control car traveled?
 - b. How far is the remote control car from its original location?