

Velocity Problems 1

Physical Science and Technology

Please answer these questions on your own sheet of paper, and show all of your work by using the Five Steps!

1. A moose is pushing a derby racer North on a trail in the woods. He goes a total of 1100 meters in a straight line, and it takes him 63 seconds. What is his velocity?
2. A squid hits a derby racer floating in the ocean with one of its tentacles. The derby racer goes straight down 251 meters in 28.3 seconds. What is its velocity?
3. Mr. Bregar falls out of a very large derby racer. He falls 5.2 meters to the ground in 2 seconds. What was his velocity?
4. Mr. Kirsch is driving his derby racer to a friend's house. He drives 7500 meters North, with a velocity of 2.3 meters per second. For how long was he driving?
5. A tarantula is tarantualing to the store on top of its favorite derby racer. It takes her 452 seconds to get to the store, and she is tarantualing at 0.08 meters per second to the East. How far away was the store?