

Acceleration Challenge Problem 2

Physical Science and Technology

Instructions: Please complete this problem on your own sheet of paper – write your name, today's date, and the title of this assignment ("Acceleration Challenge Problem 2") at the top of your page.

An angry ogre picks up a derby racer as if it were a cotton ball. It throws the derby racer straight up into the air. The derby racer accelerates at 9.8 m/s^2 towards the ground for 6 seconds. At the end of the 6 seconds, the derby racer has a velocity of 1.2 m/s towards the ground. What was the derby racer's velocity just as it left the angry ogre's hand? Use the Five Steps to solve this problem.