Net Force and Acceleration: Shopping-Cart Challenge

A son pulls on a shopping cart by dragging his feet. But his father pulls much harder, and the cart moves to the left.



Instructions

- 1. Represent the cart with a single dot.
- 2. Using black vectors (arrows), draw all of the forces acting on the cart.
- 3. What is the direction of the net force? (Use a **bold black** vector.)
- 4. What is the direction of the acceleration? (Use a red vector.)

Summer Institute PD Leader Guide—3rd-Grade Handout 5.12