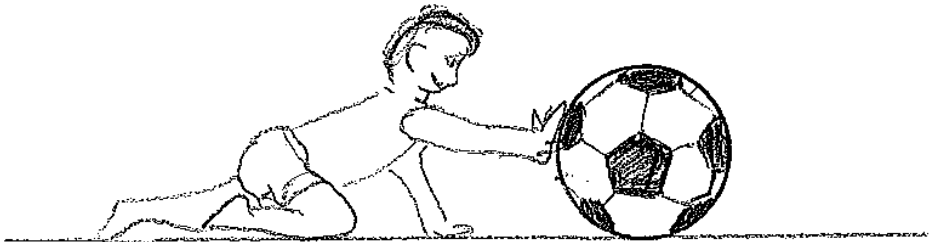


## Baby Pushing a Soccer Ball and a Bowling Ball

**Scenario 1:** A baby crawls over to a soccer ball that's sitting still on the ground. He reaches out a hand and pushes the ball, causing it to move.

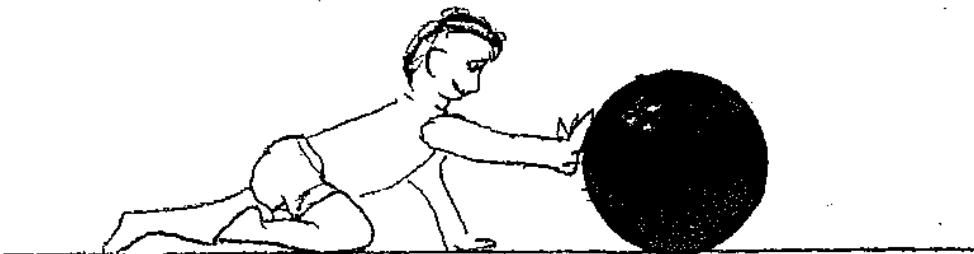
1. Draw a **black vector** showing all of the forces acting on the ball.
2. Draw a **bold black vector** showing the net force on the ball.
3. Starting at the ball, draw a **red vector** showing the ball's acceleration.



Courtesy of Hector Mireles

**Scenario 2:** The same baby crawls over to a bowling ball that's sitting still on the ground. He reaches out a hand and pushes on the ball with the same amount force he used to get the soccer ball moving.

1. Draw a **black vector** showing all of the forces acting on the ball.
2. Draw a **bold black vector** showing the net force on the ball.
3. Starting at the ball, draw a **red vector** showing the balls' acceleration.



Courtesy of Hector Mireles