

5.15. Visualize: Please refer to Figure EX5.15.

Solve: Newton's second law is $F = ma$. We can read a force and an acceleration from the graph, and hence find the mass. Choosing the force $F = 1 \text{ N}$ gives us $a = 4 \text{ m/s}^2$. Newton's second law yields $m = 0.25 \text{ kg}$.