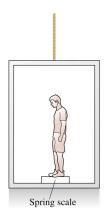
Weight, Apparent Weight, Weightlessness

The weight of an object is the magnitude of the gravitational force acting on it.

The measured or apparent weight refers to the reading on a scale.

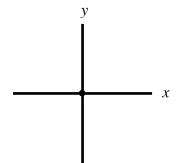


Example:

A person of mass m stands on a bathroom scale while riding the elevator (see Figure). What is the reading on a scale if the elevator is accelerating?



case 1: no acceleration



case 2: upward acceleration

