

## Free Body Diagram Practice

Draw FBD's for the scenarios described below. Recall that:

$F_f$ =Friction Force

$F_N$ =Force Normal

$F_g$ =Force Gravity

$F_a$ =Force Applied

1) A box sitting at rest on a table	5) A box sliding across the floor without being pulled (slowing down)	9) A boat floating in water and moving forward at constant speed
2) A box sitting at rest, despite being pushed	6) A helicopter descending while moving forward at a constant speed	10) A man inside an elevator accelerating up.
3) A box accelerating across a table (being pulled)	7) A blimp at 2000 feet accelerating forward from rest	11) A man inside an elevator accelerating down.
4) a box being pulled across a table at a constant speed	8) a bucket of water being picked up by its handle	12) Create your own scenario :-)