



A helicopter of mass 3770 kg can create an upward lift force F . When empty, it can accelerate straight upward at a maximum of 1.37 m/s^2 . A careless crewman overloads the helicopter so that it is just unable to lift off. What is the mass of the cargo?

Draw a Free-body Diagram of both situations

Check your Why? with Mr. C before continuing.

How?

Show all work including substitution with units.

Open the short cut **IP F Hel** in the folder on one of the lab stations.

Enter the answer you found above. Check your answer by hitting the check button.

If your answer is not correct follow the interactive steps below the problem to work through the solution. Write the correct steps with solution on the back of this page.