Force & motion

If you plot a graph of mhg against the acceleration a, what does the slope of your graph represent

Take:

The mass of the glider (or cart) Ma

The hanging mass man

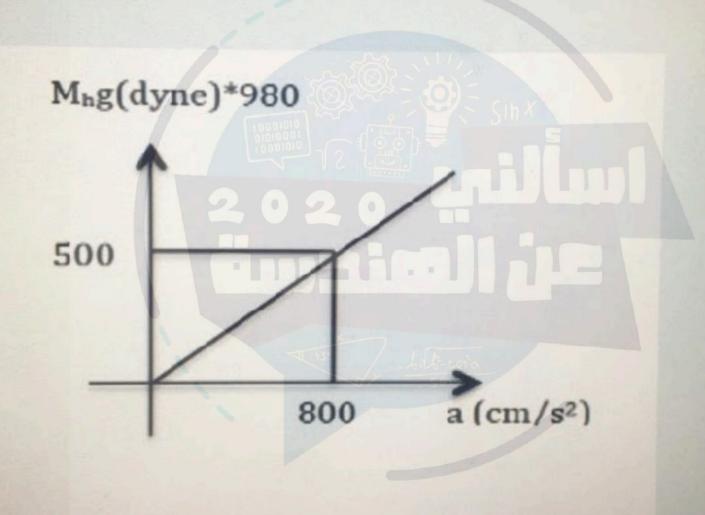
The added mass ma

- O ma
- \bigcirc $(m_h + M_g + m_a)$
- \bigcirc $(m_h + m_o)$
- Mg
- (mh +Mg)

Muhg = (ma+Mg+mh) a Slope: mh+ma+Mg

Time left 0:19:39

In the Force and Motion experiment: use the information from the grap. shown. When (ma+mh) was kept constant and equal to 460 g, we got the graph shown in the figure. The mass of the cart ma (in g) is:



121 Slope = may Mg+ma ma+mh = 460 g Slope = (500-0) - 980 dyne (0-800) cm132 = 612.59 Mg = 612.5g - 460 g Mg = 152.5g