y a scale cause d Mass; 3 definitions 1) The amount of matter comprising an object 2) Gravitational mass: mass measured in the presence of a gravitational field 3) Inertial mass: resistance to change in motion (Newton's 1st Law) New Tan's Fret = mg = 0 accel New ten's 1st, 2" Laws 9=9.8 Gravitational mass leads to a force called WEIGHT (Fg) The normal force is often called the APPARENT WEIGHT. Fn Apparent Weightlessness occurs when Fn = 0 2 (ገ 9 Fn = 0 occurs in freefall AND in orbit = ma Fc = Fg67×10[™]) (**)(75) Fg 6.38×10 F3 = mine フmong Minimum/ maximum speeds: will have Fn or $F_T = 0$ depending on the type **F**l (:2.0m of circle and your FBD What minimum spel at top? What is FT at the Fc = Fg 50 Hom ?!? V XV 50 $F_c = F_T - F_q$ V=Jgr'= V_{Tup=} 4.43? Teponser vootEnergy $F_c + F_g = F_r$ mg = FT



