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Big Exam #2 Use both sides. Put your name at the end

#1: You take a ride on an "extreme" elevator. Near the end of the assent, you find yourself standing on the ceiling of the elevator, upside down, on your scale, which reads 300 N. This is surprising to you because your mass is 50 kg.

- a) What do you expect the scale to read when you are standing on it on the solid ground?
- b) What is your acceleration at this moment?

Lens: Dynamics Reason: Considering forces and acuteration ZF=MA)

OFFN 1 = 0 Resultant force: 0 SFT = FN-Mg=Ma

FN - (50/20) (10m/s2) = 50/200m/s2) FN - 500 kgn132= 0 kgm132

FN = 500 kgn/s2 = 500 N or 50 kg

if the scale is

b. PA A EF' = FN + Fg = Ma Q = FN + Fg Q = FN + Fg M Q = FN + Fg M $Q = -300 \text{kg/m/s}^2 - 50 \text{kg} (10 \text{m/s}^2)$ S0 kg

= -300/1911/32-500/191/s2

= -800 kgm/s2 =-16 m/s2

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