QP13

A spigot pours rice onto a large platform, which is the platform of a scale. At a time $t = 0.0$ sec, the spigot is opened and rice begins to pour out (with initial velocity 0) at a rate of 1.00 kg/sec onto the platform from a height of 10.0 m above.

a) (1 point) At $t = 10$ sec what is the weight of the rice on the platform?

b) (2 points) What does the scale read at this time? Hint: consider the change in vertical momentum per unit time.