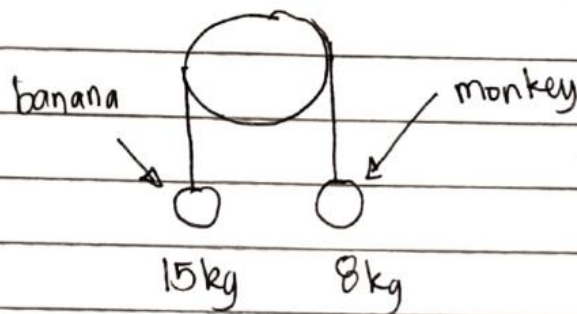


A monkey hangs on a massless cable which passes over a frictionless pulley and attaches to a bunch of bananas hanging on the other side. What is the magnitude of the monkey's acceleration? What is the tension?



Answer

- $a = 2.98 \text{ m/s}^2$
- $T = 102.25 \text{ N}$
-

Explanation

Let $m = 8\text{kg}$, mass of monkey
 $M = 15\text{kg}$, mass of banana

Required :

$T = ?$
 $a = ?$