

Title: How does a massive human body stand on weak feet toes?

Abstract: The new physical phenomenon is the small effect on feet toes when a human stand on them. This article aims to explain this new physical phenomenon

Author: Yahya A.Sharif

Article:

As the title reads, the human massive body is able to stand on weak foot toes, also there will be relatively slight pressure on soles. The explanation is:

Human body mass can be determined by comparing the body with another mass in scale" nothing new here ".The gravity of the human body is its mass times acceleration "nothing change here "

When a person stands on surface. The gravity force of body on a surface is greater than the normal force by the surface upwards.

The gravity force of body appears in a spring on scale by compressing it which shows body mass times acceleration" nothing new". But the force upwards appears on the phenomenon of standing on one foot toes.

The pressure on toes or soles is as a result of two equals forces , one is the force of ground upwards and the other is force downwards taken from the weight" this force is always less than weight"

The values: weight and normal force upwards related to each other mathematically. The massive the body is the force upwards and the force downwards "weight" are big

Comparing this with the phenomenon of a person lifting one's massive body with weak foot and calf's muscles when trying to pick a fruit on a tree:

<http://vixra.org/abs/2001.0310>

The small normal force of earth surface upwards on the body is equal to the force lifting the body, so the force lifting a body is small, far less than force downwards "weight"

The phenomenon of small press on feet toes of a standing body related only to gravity on a human body that is the toes won't bear for instance "equivalent to human body" 80 kg mass put on it it. That will press the toes extremely hard.