How much does a 110kg person weigh on earth. Please explain

Answer:

In science and engineering, the weight of an object is the force on the object due to gravity. This is often expressed in the formula

$$W = mg$$

where W is the weight, m the mass of the object, and g gravitational acceleration. (http://en.wikipedia.org/wiki/Weight)

At different points on Earth, gravitational acceleration is between 9.78 and 9.82 m/s^2 depending on latitude, with a conventional standard value of exactly 9.80665 m/s^2 (http://en.wikipedia.org/wiki/Gravitational_acceleration)

We are given:

$$m = 110\ kg$$

Thus:

$$W = m * g = 110 * 9.80665 \approx 1078.7\ kg * m/s^2 = \mathbf{1078.7\ N}$$

So, 110kg person weigh $\mathbf{1078.7\ N}$ on earth surface.