

Worksheet: Weight Practice

$$F_{\text{Weight}} = m g$$

NAME:

An orange weighs about 1.1 N. what is the mass of the orange in kilograms? - 2 pts -

- Mass - kg
- Acceleration due to gravity - m/s^2
- Force of Weight - N

Givens

Work

Answer

An African elephant can reach heights of 13 feet and possess a mass of as much as 6000 kg. Determine the weight of an African elephant in Newtons. - 2 pts -

- Mass - kg
- Acceleration due to gravity - m/s^2
- Force of Weight - N

Givens

Work

Answer

About twenty percent of the National Football League weighs more than 300 pounds. At this weight, their Body Mass Index (BMI) places them at Grade 2 obesity, which is one step below morbid obesity. Determine the mass of a 300 pound (1330 N) football player. - 2 pts -

- Mass - kg
- Acceleration due to gravity - m/s^2
- Force of Weight - N

Givens

Work

Answer

According to the National Center for Health Statistics, the average mass of an adult American male is 86 kg. Determine the mass and the weight of an 86-kg man on the moon where the gravitational field is one-sixth that of the Earth. - 2 pts -

- Mass - kg
- Acceleration due to gravity - m/s^2
- Force of Weight - N

Givens

Work

Answer