

1. A ball has a mass of 1 kilogram. Find its weight in newtons.
2. A bag of groceries has a weight of 44 newtons. Find its approximate mass in kilograms.
3. A marble has a mass of 0.002 kilograms. Find its approximate weight in kilograms.
4. If an object has a mass of 36 kg, find its mass on the moon and find its weight on the moon.
5. An astronaut has a mass of 90 kg. Find his mass and his weight if he is in a flight simulator where the gravitational attraction has been reduced to $1/10$ of the earth's pull.
6. An object has a mass of 5.5 kilograms. Find its weight in newtons.
7. A bag of apples has a weight of 22 newtons. Find its approximate mass in kilograms.
8. A paper clip has a mass of 0.001 kilograms. Find its approximate weight in newtons.
9. If an object has a mass of 24 kg, find its mass on the moon and find its weight on the moon.
10. An astronaut has a mass of 85 kg. Find his mass and his weight if he is in a flight simulator where the gravitational attraction has been reduced to $1/10$ of the earth's pull.
11. An 80 kg person on top of Mt. Everest would weigh only 781.6 N. How strong is the Earth's gravitational field on top of Mt. Everest?