

Name: _____

Calculate Your Weight on Other Worlds

Mercury is the smallest planet, and the planet closest to the sun.
The gravity of Mercury is 38% of Earth's gravity.
To calculate your weight on Mercury, multiply your weight by 0.38.

$$\frac{\text{_____}}{\text{(Your weight on Earth)}} \times \frac{\text{_____}}{\text{(units - lbs or kg)}} = \frac{\text{_____}}{\text{(Your weight on Mercury)}} \frac{\text{_____}}{\text{(units - lbs or kg)}}$$

(multiply by)

Venus is known as the "Cloudy Planet" because it is covered with thick, yellow clouds.
The gravity of Venus is 90% of Earth's gravity.
To calculate your weight on Venus, multiply your weight by 0.9.

$$\times =$$



Preview

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Mars is known as the "Red Planet" because the soil is filled with orange-red particles.
The gravity of Mars is 38% of Earth's gravity.
To calculate your weight on Mars, multiply your weight by 0.38.

$$\frac{\text{_____}}{\text{(Your weight on Earth)}} \times \frac{\text{_____}}{\text{(units - lbs or kg)}} = \frac{\text{_____}}{\text{(Your weight on Mars)}} \frac{\text{_____}}{\text{(units - lbs or kg)}}$$

(multiply by)

Jupiter has more moons than any other planet. So far, scientists have discovered 63!
The gravity of Jupiter is 234% of Earth's gravity.
To calculate your weight on Jupiter, multiply your weight by 2.34.

$$\frac{\text{_____}}{\text{(Your weight on Earth)}} \times \frac{\text{_____}}{\text{(units - lbs or kg)}} = \frac{\text{_____}}{\text{(Your weight on Jupiter)}} \frac{\text{_____}}{\text{(units - lbs or kg)}}$$

(multiply by)

Calculate Your Weight on Other Worlds

Saturn is known as the "Ringed Planet" because it has rings made of rock and ice. The gravity of Saturn is 108% of Earth's gravity. To calculate your weight on Saturn, multiply your weight by 1.08.

$$\frac{\text{Your weight on Earth}}{\text{(units - lbs or kg)}} \times \text{(multiply by)} = \frac{\text{Your weight on Saturn}}{\text{(units - lbs or kg)}}$$

Uranus spins sideways. It's north pole and south pole are on the sides. The gravity of Uranus is 80% of Earth's gravity. To calculate your weight on Uranus, multiply your weight by 0.8.



How
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How much less would you weigh on Pluto than Earth? Show your work.

answer: _____

Would you weigh more on the Earth's moon, or on Mercury?

answer: _____