

Exploring Ratios

Try making playdough balls with ratios that mirror real objects in space.



Earth and Moon

100 to 1 mass ratio

The Earth-Moon barycenter is within Earth. The Moon is 1% the mass of Earth.

Try: 100g to 1g

Pluto and Charon

100 to 12 mass ratio

Pluto is the only planet—dwarf or otherwise—in our solar system with a barycenter outside of its surface. Its moon Charon is 12% the mass of Pluto.

Try: 100g to 12g



Binary Asteroid, 90-Antiope

1 to 1 mass ratio

These two asteroids share a barycenter almost exactly between them. The two asteroids have the same mass.

Try: 50g to 50g

