If astronomers found a "Super Earth" that was twice as massive, but had exactly the same radius as Earth, how much would you weigh there?

(a) One quarter as much as on Earth

(b) Half as much as on Earth

(c) Exactly the same as on earth

(d) Twice as much as on Earth

(e) Three times as much as on Earth

$$F_{grav} = \frac{Gm_1 m_2}{d^2}$$

If astronomers found a planet that had the same mass as earth, but had twice the radius, how much would you weigh on its surface?

(a) One quarter as much as on Earth

(b) Half as much as on Earth

(c) Exactly the same as on earth

(d) Twice as much as on Earth

(e) Three times as much as on Earth

$$F_{grav} = \frac{Gm_1 m_2}{d^2}$$