

11

The planet Jupiter has a radius of 7.15×10^7 m and is approximately 318 times more massive than the Earth.

Given that the Earth has a radius of 6370 km, what is the acceleration due to gravity on the surface of Jupiter?

A

$$2.41 \times 10^{-5} \text{ N kg}^{-1}$$

B

$$2.73 \times 10^{-3} \text{ N kg}^{-1}$$

C

$$24.8 \text{ N kg}^{-1}$$

D

$$273 \text{ N kg}^{-1}$$