8 The planet Jupiter has a mass 314 times that of the Earth. Its radius is 7.23×10^7 m. Given that the Earth has a radius of 6400 km, what is the acceleration due to gravity on the surface of Jupiter?

A 2.41×10^{-5} N kg^{-1} **B** 2.73×10^{-3} N kg^{-1}

C 24.1 N kg^{-1} **D** 273 N kg^{-1}