13 The Moon is held in a circular orbit by the gravitational force provided by the Earth. The strength of this gravitational force is 2.1×10^{20} N, and the radius of the circular orbit is 3.8×10^{5} km.

What is the total work done on the Moon by the Earth's gravitational force during one complete orbit?

A 0 J **B** 8.0×10^{25} J **C** 5.0×10^{26} J **D** 5.0×10^{29} J