Answer on Question #55271, Physics – Astronomy, Astrophysics

The Moon has a radius of 1 738 km. Demonstrate that the Moon is just over ¼ the size of the Earth.

Answer

$$R_{moon} = 1\ 738\ km;\ R_{earth} = 6\ 400\ km.$$

$$\frac{R_{moon}}{R_{earth}} = \frac{1\ 738}{6\ 400} \approx 0.271 > 0.25, thus\ the\ Moon\ is\ just\ over\ \frac{1}{4}\ the\ size\ of\ the\ Earth.$$