

- (a) The Earth is approximately spherical with a radius of 6400 kilometres.
Calculate the volume of the Earth giving your answer in scientific notation, correct to 2 significant figures.



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- (b) The approximate volume of the Moon is 2.2×10^{10} cubic kilometres.
Calculate how many times the Earth's volume is greater than the Moon's.

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Answers:

- (a) $1.1 \times 10^{12} \text{ km}^3$
(b) 50