

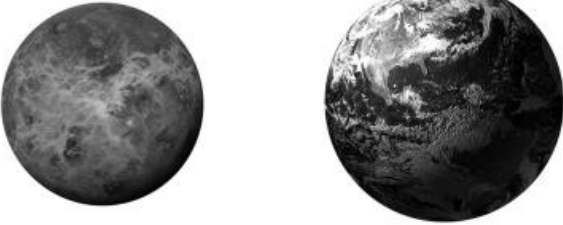


Scientific notation

YEAR	PAPER	QUESTION
2015	2	<p>(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.</p>  <p style="text-align: right;">3</p> <p>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.</p> <p style="text-align: right;">2</p>
2016	2	<p>2. A pollen sample weighs 12 grams and contains 1.5×10^9 pollen grains.</p>  <p>Calculate the weight of one pollen grain in grams. Give your answer in scientific notation.</p> <p style="text-align: right;">2</p>
2018	2	<p>Venus and Earth are two planets within our solar system.</p>  <p style="text-align: center;">Venus Earth</p> <p>The volume of Venus is approximately 9.3×10^{11} cubic kilometres. This is 85% of the volume of Earth. Calculate the volume of Earth.</p> <p style="text-align: right;">3</p>

2019

2

A sesame seed weighs 3.6×10^{-6} kilograms.

The weight of a poppy seed is 8% of the weight of a sesame seed.

Calculate the weight of a poppy seed in kilograms.

Give your answer in scientific notation.

2