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2

The unit that is equal to 1 x 10^{-2} m is a centimetre. What is the name given to the unit that is equal to 1 x 10^{-9} m?

nanometer

(there are 100 cm in a meter which equates to 1×10^{-2} m in standard form and there are 1,000,000,000 nm in a meter which equates to 1×10^{-9} m in standard form)

By how many orders of magnitude is a centimetre larger than a micrometer?
[1 mark]
4

(cm is 1×10^{-2} m and a micrometer is written as 1×10^{-6} in standard form. To answer this question you work out the difference in the powers which is 6-2 = 4)

[1 mark]