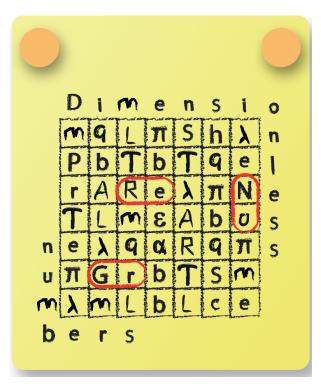# Dimensionless Number: Task 14

Define the Nusselt number.

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Nusselt number is defined as $\mathrm{Nu} = \frac{\alpha L}{\lambda}$ and characterizes the mechanisms of heat transfer at a body's surface that is surrounded by a fluid. It gives the ratio of convective heat transfer, which consists of advection and diffusion, to conductive transfer.