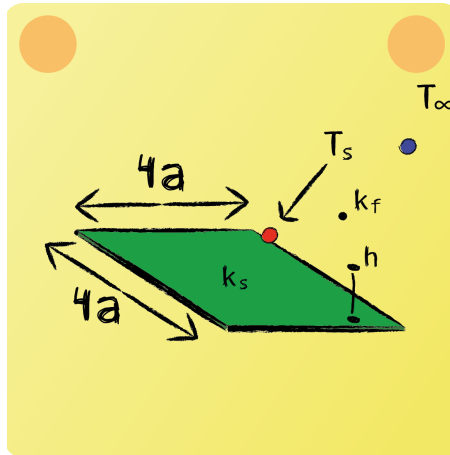




## Lecture 04 - Nusselt 09

Give an expression for the Nusselt number  $Nu$ , in terms of the given variables.



Nusselt number:

$$Nu = \frac{hL_c}{k_{\text{fluid}}}$$

Characteristic length for the sketched situation:

$$L_c = \frac{A_s}{p} = \frac{4a \cdot 4a}{4 \cdot 4a} = a$$

So:

$$Nu = \frac{ha}{k_f}$$