

15 April 2013



SG2224
Applied CFD

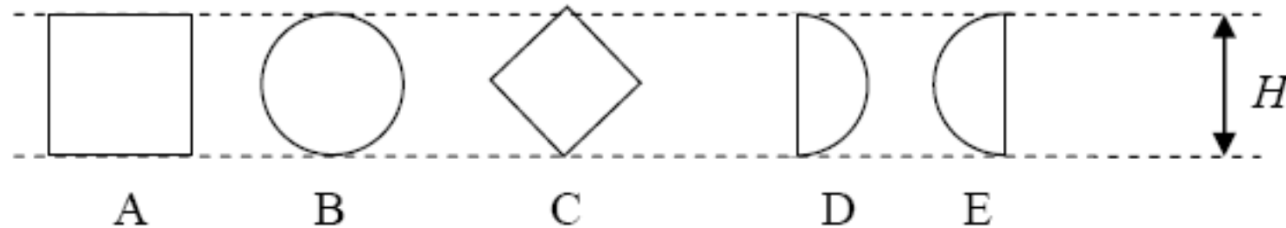
Today

- PDC information – Izhar UI Hassan
- Lecture: grid generation



Individual task

- Objective
To derive the drag coefficient for a 2D object



- Setting
 - Choose object
 - Choose $Re = 10^4$, 10^5 or 10^6
- Derive, upload on bilda, due 18/4 12:00
 - Drag coefficient
 - Grid and flow pictures
- During lecture 5 (19/4): Feedback
- Different approximations – no "correct answer"



Individual task, to think about

- Reynolds number
 - Based on object height (H) and free stream velocity (U_∞)
- Definition of C_d
 - Normalized internally in Fluent based the "Reference Values"
 - Should be somewhere between 0.3 and 3.0

