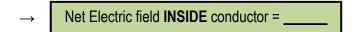
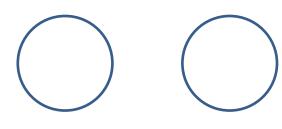
CONCEPT: CONDUCTORS AND ELECTRIC FIELDS

- Electrons are [ALLOWED | NOT ALLOWED] to move within conductors.
 - Electrons want to get as far apart as possible.

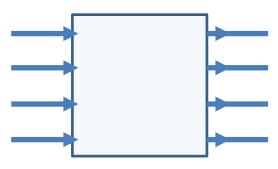


• CHARGE ARRANGEMENT in conductors:

Net CHARGED Without External Electric Field







- → **Net** charges ALWAYS move to and distribute on the ______ of conductors.
- ullet Outside a conducting CHARGED sphere with charge ${f Q}$, the electric field is: ${f E}=$

EXAMPLE: A spherical conductor with a radius of 0.5m has a net charge of 2.0µC. What is the electric field a) 0.8m from the center of the conductor b) 0.4 m from the center of the conductor?