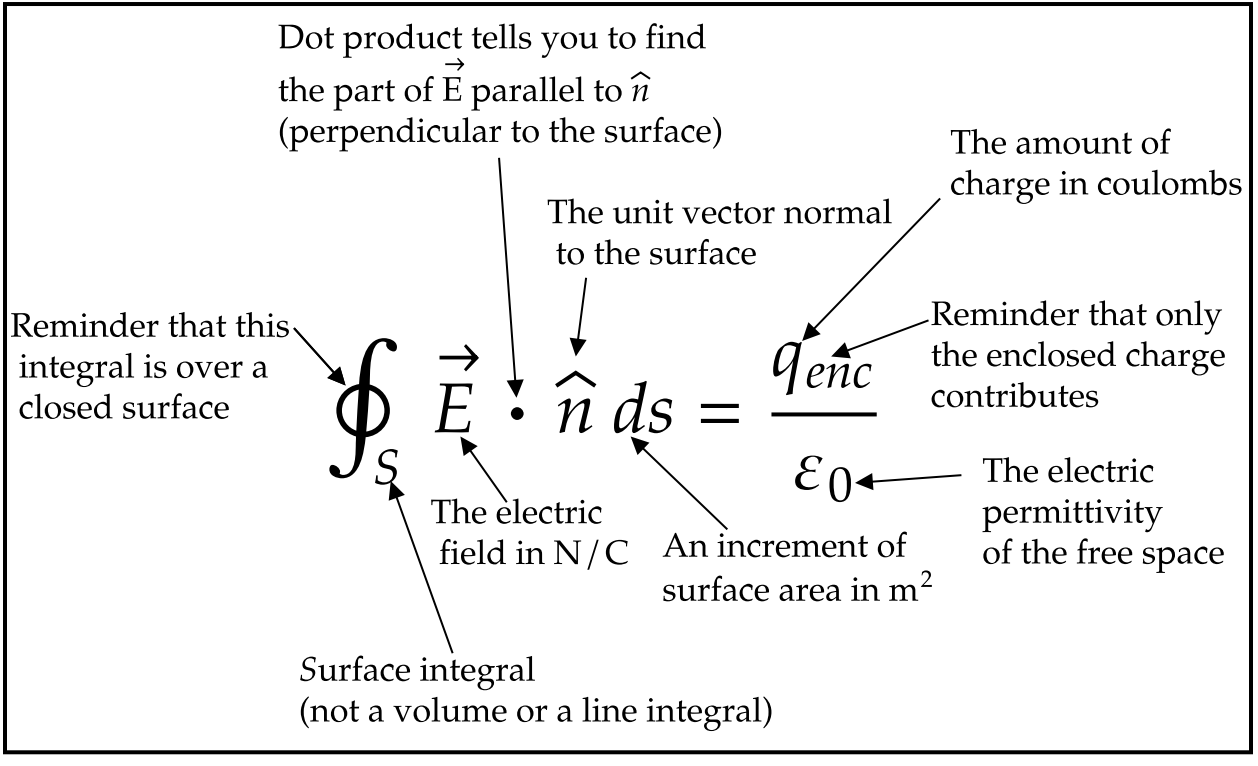
Dot product tells you to find
the part of $\vec{E}$ parallel to $\hat{n}$
(perpendicular to the surface)
The amount of
charge in coulombs
The unit vector normal
to the surface
Reminder that this
integral is over a
closed surface
$\oint_S \vec{E} \cdot \hat{n}\, ds = \frac{q_{enc}}{\varepsilon_0}$
Reminder that only
the enclosed charge
contributes
The electric
permittivity
of the free space
The electric
field in N/C
An increment of
surface area in m^2
Surface integral
(not a volume or a line integral)