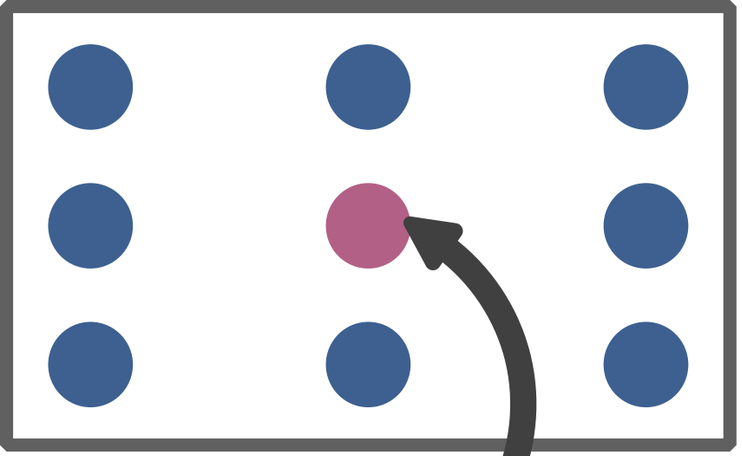
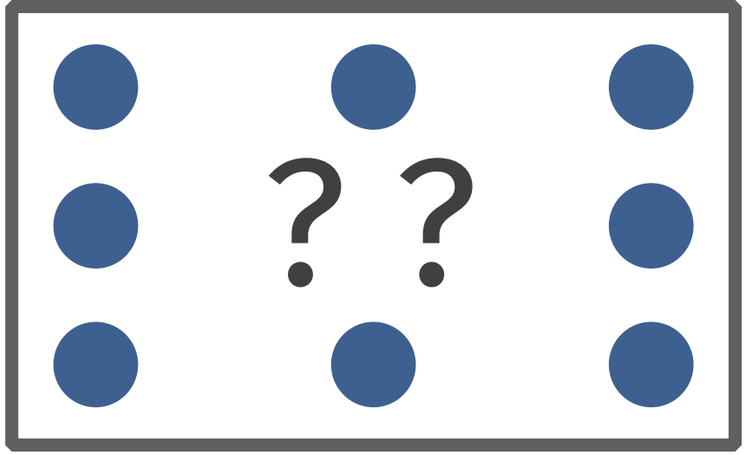


$$S(A) = \text{Trace}\left(\rho_A \ln \rho_A\right)$$




measure subsystem $A$

gain information about rest