

Definition (Complete Lattice). A poset $\langle \mathbf{P}, \leq \rangle$ is a *complete lattice* if every subset Q of \mathbf{P} has both a *greatest lower bound* (often referred to as the *infimum*, *meet*) and a *least upper bound* (often referred to as the *supremum*, *join*) in $\langle \mathbf{P}, \leq \rangle$.