Definition (Lattice)

A *lattice* is a poset $P = \langle P, \leq_P \rangle$ with the additional property that, for any two-element subset $\{x, y\} \subseteq \mathbf{P}$, both the join $\bigvee \{x, y\}$ and the meet $\bigwedge \{x, y\}$ exist.

Usually these are written using infix notation as $x \lor y$ and $x \land y$, respectively.