The language of arithmetic

The variables are terms.
"0s" is a term.
If τ and ρ are tems, so are $S\tau$, $(\tau + \rho)$, and $(\tau \cdot \rho)$.
Nothing else in a term.

Expressions of the form $\tau = \rho$ and $\tau \leq \rho$ are atomic formulas.

Every atomic formula is a formula.
If φ and ψ are formulas, so are $(\varphi \vee \psi)$, $(\varphi \wedge \psi)$, and $\sim \varphi$.
If φ is a formula, so is $(\forall v)\varphi$ and $(\exists v)\varphi$
Nothing else is a formula.

A term without variables is closed.
A formula without free variables is a senrtence.l