Given,

T = 2π

* Dimension of T is [T]
* Dimension of l is [L]
* Dimension of [g] = L/T2

So, 2π = 2π

= 2πT

Since 2π is constant, we can ignore it.

In Left hand side we have [T].

And in right hand side we have 2π = 2πT = [T]

Therefore, the equation is dimensionally consistent.