Quiz

1. What is the unit of measure of traffic intensity? 
   A: ERLANG

2. If a user uses a channel for 10 minutes during an hour, what is the user's traffic intensity? 
   \[ \frac{10 \text{ min}}{60 \text{ min}} = \frac{1}{6} \text{ Erlang} \]

3. Consider 10 trunked channels.
Wee a user pool is such that each user has traffic intensity given in 2. If the GOS is to be 10%, (4.46 Erlangs by Erlang B) using 10 channels, find the total number of users that can be supported.

\[
\text{Total traffic } A = \frac{4.46}{\text{users } \frac{1}{6}} \Rightarrow \text{users } \frac{A}{4.46} = \frac{1}{6}
\]

\[
u = 27 \text{ users}
\]

4. How many users in #3 can be accommodated with perfect scheduling?

10 channels always used = 10 Erlangs

\[
\frac{10}{\text{Erlang}} \frac{\text{Erlang}}{\text{user}} = 60 \text{ users}
\]