

A Puzzle

Professor to Grad Student: I was at a party last night with three other people. The product of their ages is 2450 and their sum is twice your age. How old are they ?

Grad Student (after thinking for a long time): I don't have enough information.

Professor: Yes, but it will help if I tell you I was the oldest one there.

Graduate Student: But I don't know how old you are !

Professor: You can tell me that too.

How old are the professor, the graduate student and the three other people at the party ?—There is only one unique answer and no guessing is allowed.