

APARTMENT COMPLEX

The janitor of an apartment complex notices that the boiler is acting strangely and he feels he needs to evacuate the buildings. He phones 2 of the residents, tells them the news, asks them to call 2 other residents and explain the situation, then evacuate the buildings.

Assume 1) each resident is home and answers the phone immediately,
2) only one person lives in each apartment,
3) none of the residents are phoned more than once and
4) they all do what they are asked.

If each phone call takes 30 seconds and if it takes each resident 90 seconds to evacuate the building, how long will it take to empty all 375 apartments?

