4th Problem - 20 mins, Time left = 30-20=10 mins

5th Problem - 25 mins

So he can solve only 4 problems as he is not left with 25 mins to complete 5th problem.

Source Code:

N = int(input())
P = int(input())
time = 240 - P
timeleft = time

i = 1
while i<=N and 5*i<=timeleft:
 timeleft -=5*i
 i+=1
print(i-1)

RESULT

S / 5 Test Cases Passed | 100 %