3rd Problem - 15 mins, Time left = 45-15=30 mins

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

5th Problem - 25 mins

360

Source Code:

def max_problems_solved(N, P): # Total available time for solving problems (240 minutes minus travel time) remaining_time = 240 - P # Initialize counters for time and problems solved $time_spent = 0$ count = 0 $\mbox{\tt\#}$ Iterate over problems from 1 to N for i in range(1, N + 1): # Time to solve the ith problem time_to_solve = 5 * i # Check if there's enough time left to solve this problem if time_spent + time_to_solve > remaining_time: break # Max can't solve more problems # Update the time spent and count of problems solved time_spent += time_to_solve count += 1 return count N=int(input()) P=int(input()) result=max_problems_solved(N,P) print(result)

RESULT

5 / 5 Test Cases Passed | 100 %