```
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
         \# 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
             \ensuremath{\text{\#}} 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 %
```