

```
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{\#} 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)
5 / 5 Test Cases Passed | 100 %
```