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```
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
        # 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 %