Input:

180

Output:

Explanation:

The amount of time left to solve the problems is 4*60-180=60 mins.

1st Problem - 5 mins, Time left = 60-5=55 mins

2nd Problem - 10 mins, Time left = 55-10=45 mins

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

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

5th Problem - 25 mins

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

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
   # 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 %

100

823

80 +

SE

LUBIL

2086

23

770

(55,08)