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50	STUDENT REPORT	13cD0.
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R R	S GAYATHRI Roll Number	38273
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	PERIMENT (C) 28 PA CO	23008
D	Description	0080 3E
3CD080	Max is planning to take part in a Diwali contest at a Diwali Party that will begin at 8 PM and will run until midnight (12 AM) i.e., for 4 hours. He also needs to travel to the party venue within this time which takes him P minutes. The contest comprises of N problems that are arranged in order of difficulty, with problem 1 being the simplest and problem N being the most difficult. Max is aware that he will require 5*i minutes to solve the i th problem	3BR13
30 3BR1	Your task is help Max find and return an integer value, representing the number of problems Max can solve and reach the party venue within the given time frame of 4 hours.	13C108
ac D'		, V ³
3R23CD	input1: An integer value N, representing the total number of problems.	,080 3B
CD080	input2: An integer value P, Representing the time to travel in minutes from his home to the party venue.	50
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Example:	3BR236
3BR2	Input:	
3030	6	08
	180	DBBO
aco'	Output:	
3R2	4	Q230
	Explanation:	10887
q	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	2000

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

26

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 %

°.5

286

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3000

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