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st Cos	C NAAZNEEN Roll Number	BR13EC
3BR2		
Tit	APERIMENT tle Diwali contest Description Description	D3ECO30
	DIWALI CONTEST Description ARD SECOND SHAPE SECOND SHAP	3030 3BR1
3KC030?	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.	,BR23EC
303BR2	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.	3 ^{EC} 030
~ <	Note: Max will leave his home at exactly 8 PM to reach the party venue.	3
8R23EC	Input Format:	80
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-0;	mpater in mega, raido i, roproconting the time to traver in material to the party reliable.	3
3 [£] C030?	Example:	aR13EC
-0	Input:	500
30 3BR1	6	0
55	180	3 CO. 2
ري.	Output:	
BR23ECS	4	Rect
	Explanation:	8303
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	A PAGE
	2nd Problem - 10 mins, Time left = 55-10=45 mins	BEN
	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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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
    \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)
```

RESULT

5 / 5 Test Cases Passed | 100 %

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