	Logo	
20.2	STUDENT REPORT AND	273cD00
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<b>!</b>	Roll Number	53BK
BRI	3BR23CD005	
Tit	SPERIMENT  tles  DIWALI CONTEST  Description  Description	3E)3CD00
ı	Description State Schools Schools State Schools State Schools State Schools Schools State Schools Schools State Schools State Schools State Schools Schools State Schools Sc	choop 34
schoo's	for 4 hours. He also needs to travel to the party venue within this time which takes him <b>P</b> minutes. The contest comprises of <b>N</b> problems that are arranged in order of difficulty, with problem 1 being the simplest and problem <b>N</b> being the most difficult. Max is aware that he will require 5*i minutes to solve the i <sup>th</sup> problem.	3BR13C
053BR1	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.	,23cD006
	Note: Max will leave his home at exactly 8 PM to reach the party venue.	130
3R23CD	Input Format:	
8R	input1: An integer value N, representing the total number of problems.	,005 38
co's	input2: An integer value P, Representing the time to travel in minutes from his home to the party venue.	,000
choos	Example:	3BR23C
27	Input:	
05 3BRJ	6	o <sup>o</sup>
,	180	DOO
CD'	Output:	,
3223	4	38
	Explanation:	Bible
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	2.DBC
	2nd Problem - 10 mins, Time left = 55-10=45 mins	380
	3rd Problem - 15 mins, Time left = 45-15=30 mins	
	4th Problem - 20 mins, Time left = 30-20=10 mins	OBLE

5th Problem - 25 mins

```
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)
                                                                                                   38xxxx0005
print(result)
```

RESULT

5 / 5 Test Cases Passed | 100 %