, 10	<b>□</b> Logo	(0
20.	STUDENT REPORT R	13CD00
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SOA FX	KPERIMENT  (A) SHELLS CHOOL SHE	ght (12 AM) i.e., comprises of N ost difficult. Max
	tlex gold get gold ge	2230
200	DIWALI CONTEST COOK AND	until midnight (12 AM) i.e., the contest comprises of N eing the most difficult. Max
Tit	DIWALI CONFEST	30
I	SPERIMENT  tlex  DIWALI CONTEST  Description  Description	,000 K
3CD06A	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.,	
300		R230
	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 <sup>th</sup> problem.	30
SOA BERT	Your task is help Max find and return an integer value, representing the number of problems Max can solve and reach the party venue	. 1
50h	within the given time frame of 4 hours.	3CD00
(	, , ,	, V
BR13CD	Input Format:	
3,	input1: An integer value N, representing the total number of problems.	COK 36
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3CD06A		. C
5	Example:	BRIS
2	Input:	
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, O	Output:	,~
BR13cD	4	200
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**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

**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 %