Problem Link:

<https://codeforces.com/problemset/problem/750/A>

Solution:

* **#include** **<iostream>**
* **using** **namespace** std;
* **int** maximum\_problems\_solved(**int** n, **int** k)
* {
* **int** available\_time = 240 - k;
* **int** problems\_solved = 0;
* **for** (**int** i = 1; i <= n; i++)
* {
* **int** time\_to\_solve = 5 \* i;
* **if** (available\_time >= time\_to\_solve)
* {
* available\_time -= time\_to\_solve;
* problems\_solved++;
* }
* **else**
* {
* **break**;
* }
* }
* **return** problems\_solved;
* }
* **int** main()
* {
* **int** n, k;
* cin >> n >> k;
* cout << maximum\_problems\_solved(n, k) << endl;
* **return** 0;
* }