Mock CCC '18 Contest 1 J3/S1 - A Math Problem

Time limit: 5.0s **Memory limit:** 1G

Given positive integers K, P, and X, compute the minimum possible value of $f(M) = MX + \frac{KP}{M}$ given that M must be a positive integer.

Constraints

$1 \leq K, P, X \leq 10\,000$

Input Specification

The input consists of a single line containing three space-separated integers K, P, and X.

Output Specification

Print, on a single line, the minimum possible value of f subject to the above constraint, rounded to exactly three decimal places.

The input data will be set such that the correct answer will not be within 10^{-5} of the aforementioned rounding boundary.

Sample Input 1

```
31 41 59
```

Sample Output 1

```
549.200
```

Sample Input 2

```
3 4 5
```

Sample Output 2

```
16.000
```