# Distance Calculator



Create a program that **calculates** what **percentage** you’ve travelled.

**First**, you will **receive** how many steps you’ve made.

Then, you will **receive** how **long** **1 step is in centimeters**.

Last, you will **receive** the **distance** you need to travel in **meters**.

Then you have to **calculate what distance** you have travelled with the **steps given**.

Have in mind that every **fifth** **step** is **30% shorter** than usual.

You have to calculate what **percentage** **of the distance you’ve travelled**.

In the end, print the percentage of the distance travelled, **formatted** to the **2nd decimal place**, in the following format:

**"You travelled {percentage}% of the distance!"**

## Input

* On the **1st line** you will receive the **steps made** – an **integer number** in the range [0…100000]
* On the **2nd line** you will receive the **length of 1 step** – a **real number** in the range [0.0…50.0]
* On the **3rd line** you will receive the **distance you need to travel** – an **integer number** in the range [0…100000]

## Output

* In the end print the **percentage** of **the distance travelled** **formatted** to **the 2nd** decimal place in the format described above.

## Constraints

* The input will always be in the right format.
* Percentage can be over 100%.

## Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 100 2 1 | You travelled 188.00% of the distance! |
| **Comments** | |
| The length of a step is 2 centimeters. Every fifth step will be 1.4 centimeters long. 20 shorter steps are made. The distance that has to be travelled is 1 meter. The distance travelled is 1.88 meters which is 188% of the distance that had to be travelled. | |
|  | |
| 5000  7.5  500 | You travelled 70.50% of the distance! |