01. Biscuit Factory

Create a program that **calculates** how many biscuits your factory can make for a month (**30 days**) and **calculates** the **percentage** of production compared to another **factory's** production.

First, you will **receive** the number of biscuits produced **per day** (**per worker**) inside of your factory. After that, you will **receive** the count of the **workers** in your factory. Last, you will receive the **number of biscuits** that the **competing factory produces for 30 days**.

With this information, you need to **calculate** the production of your factory for **30 days**. Then you need to **calculate** the **percentage** (more or less) of **biscuits** you produced **compared** to the other factory. There will be no case where the factories will produce **the same amount** of biscuits.

Every **third day** the workers produce only **75%** of the usual production. Keep in mind that there can be only a **whole biscuit** after making calculations **for each day** – format them to the **lower number** (round down).

At the end of the program, print the total amount of **biscuits produced** for the **30** days in the following format:

```
"You have produced {countBiscuits} biscuits for the past month."
```

Then print the percentage of the difference in production, **formatted** to the **2nd decimal place**, in the following format:

If your production is **bigger** than the competing factory:

```
"You produce {percentage} percent more biscuits."
```

If not:

```
"You produce {percentage} percent less biscuits."
```

Input

- On the **first line** you will receive the **amount of biscuits** a worker produces a day – an integer number in the range [**1…200**]
- On the **second line** you will receive the **count of the workers** in your factory – an integer number in the range [**1…1000**]
- On the **third line** you will receive the **amount of biscuits** that the competing factory produces for **30** days – an integer number in the range [**1…2000**]

NOTE: The input will always be in the right format.

Output

- Print the amount of biscuits produced for 30 days and the **percentage** of **the difference formatted** to **the 2nd** decimal place in the format described above.

Constraints

- The percentage **can be over 100**%.
- There will be no case where the factories will produce **the same amount** of biscuits.

Examples

Input	Output
78, 8, 16000	You have produced 17160 biscuits for the past month. You produce 7.25 percent more biscuits.
Comments	
-78 biscuits a day -8 employees -17160 biscuit production your factory (keep in mind every **third day** the workers produce only **75%** of the usual production) -17160 – 16000 = 1160 - difference between your and the other factory production -1160/16000 * 100 = 7.25% more biscuits.	
65 12 26000	You have produced 21450 biscuits for the past month. You produce 17.50 percent less biscuits.
Comments	

-65 biscuits a day

-12 employees

-21450 biscuit production your factory

-26000 – 21450 = 4550 - difference between your and the other factory production

-4550/26000 * 100 = 17.50% more biscuits.