The Three Little Pigs is a Silly Symphony released on May 27th 1933, based on the classic fairy tale about a trio of pigs who build their houses out of straw, sticks, and bricks to protect themselves from the Big Bad Wolf.

The short won the 1934 Academy Award for Best Animated Short Film.

In 1994, it was voted #11 of the 50 Greatest Cartoons of all time by members of the animation field.

In 2007, Three Little Pigs was selected for preservation in the United States National Film Registry by the Library of Congress as being "culturally, historically, or aesthetically significant".

Since then, the pigs are saving money for Thanks-giving day turkey.
But the pigs are not so generous. They agreed upon the idea that every day they will pick a real random number & according to the range in which the square root of this number "falls" – there will be a bonus system.

The range they should consider is:

between 1 and 300	the square root number increase 5,1 times
between 301 & 600	the square root number increase increased 10,098 times
between 601 & 999	the square root number increase increased 100,00001 times

As a programmer your task is to create a program which will do the calculations & will gives them a chance to know how much money they will save for one month.
Consider meaningful messages for the output & round the bonus to the 4 digit after decimal point.

Bonus:
1. If you wish you can write a message if total piggy sum for a year is less or more than 1 million.
2. Catch incorrect input data.