Arithmetic Operators: Number of Eggs

Write a program that asks the user how many eggs she has and then tells the user how many dozen eggs she has and how many extra eggs are left over. If you have \( N \) eggs, then you have \( N/12 \) dozen eggs, with \( N \mod 12 \) eggs left over. (This is essentially the definition of the \( / \) and \( \mod \) operators for integers).

Bonus (+10 on next quiz):

A gross of eggs is equal to 144 eggs. Extend your program so that it will tell the user how many gross, how many dozen, and how many left over eggs she has. For example, if the user says that she has 1342 eggs, your program would respond with

Your number of eggs is 9 gross, 3 dozen, and 10

since 1342 is equal to \( 9 \times 144 + 3 \times 12 + 10 \).