Year 3 and 4 Problem Solving Task.

Here are your problems to complete. Please remember to show your working out or method for solving the problem otherwise your work will be discounted from the competition! Hand your work to your class teacher by the 30th March. Prizes will be announced in assembly on the 31st March. Good Luck!

These three chicks lay some eggs.

Beth   Kelsey   Caroline

Beth lays twice as many as Kelsey. Caroline lays 4 more than Beth. They lay 44 eggs in total. How many eggs does Caroline lay?

The school has a singing group of more than 12 singers but less than 32. They sing together in different ways. Sometimes they sing in pairs and sometimes in groups of 3, 4 or 6.
Whatever size groups they are in, no one is left out and everyone is singing. How many singers are there in the school choir?

I am thinking of 2 secret numbers where the sum of the numbers is 16 and the product is 48.
What are my secret numbers?
Can you make up 2 secret numbers and tell somebody what the sum and product are?