1) Augustus and Boadicea are using a spring scale to weigh their backpacks. When weighed separately, the scale shows 3 lbs and 2 lbs. When weighed together, it shows 6 lbs.

"That can’t be right," says Augustus.

"Don’t you see?" answers Boadicea. "The pointer on the scale isn’t set to zero correctly."

How much do the backpacks actually weigh?

2) Galileo leaves his house 5 minutes after his sister. If he walks at 1.5 times her speed, how long will it take him to catch her?

3) While walking in the park, Nicole and Valerie came to a large round clearing surrounded by a ring of cottonwood trees. They decided to count the trees. Nicole walked around and counted all the trees. Valerie did the same but started from a different tree. Nicole’s 20th tree was Valerie’s 7th, while Nicole’s 7th tree was Valerie’s 94th. How many trees are there?
Here is a series of figures:

The first consists of one square.
How many squares are in the 100th figure?
How many squares are in the first 100 figures altogether?