

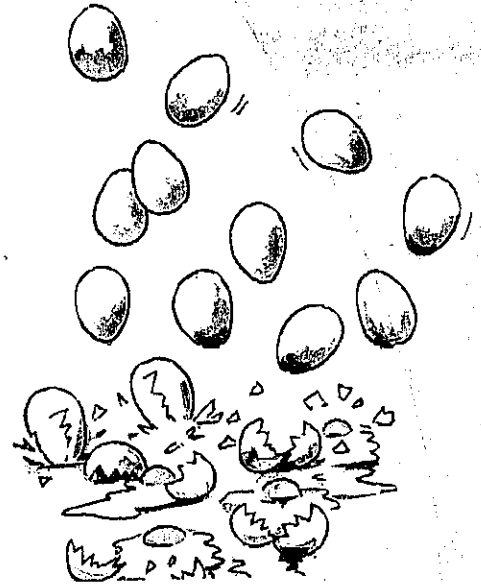
The Broken Eggs

○ The Situation

A farmer is taking her eggs to market in her cart. Along the way, she hits a pothole, which jars her cart and spills the eggs.

Though the farmer is unhurt, every egg is broken. So she goes to her insurance agent, who asks her how many eggs she had. She doesn't know, but she does remember some things from various ways she tried packing the eggs.

She knows that when she put the eggs in groups of two, there was one egg left over. When she put them in groups of three, there was also one egg left over. The same thing happened when she put them in groups of four, groups of five, or groups of six. But when she put them in groups of seven, she ended up with complete groups of seven, with no eggs left over.



○ Your Task

Your task is to answer the insurance agent's question. In other words,

What can you figure out from this information about how many eggs the farmer had? Is there more than one possibility?

○ Write-up

Your POW write-up will include five components. The components listed below are described in *The Standard POW Write-up*.

1. *Problem Statement*
2. *Process*
3. *Solution*
4. *Extensions*
5. *Self-assessment*