I increase the price of an item by 10% and then cut 10% off the new price. Is the final price greater, less than or equal to the initial price?

What happens if I first cut the price by 10% and then increase it by 10%?

What is the minimum of $ax + x \times x$ for $x \geq 0$. Note that your result will depend on a.

At the moment it is believed that one in a thousand people have disease theta. There is a test which infallibly detects theta if you have it, but has a probability of 5% of saying that you have the disease if you do not. You take the test and it says you have the disease. How worried should you be?

A very infectious disease (which, however, you can only catch once) is introduced into a large population by a small group of sufferers. Sketch a graph of the total number of people who have had the disease over time.
Sketch a graph of the number of people who presently have the disease over time.

How many kilos of potatoes are eaten by the inhabitants of Great Britain over the year.