60 miles high

My question was to find how long it would take to drop an object from 60 miles, high with no air resistance, and to find the speed it was going. To start, when you drop something it increases by 9.8 meters per second per second. This is, of course, after the first second because it has to take time to accelerate. At the end of the first second, the object would have fell 4.9 meters.

I started the problem by making a chart with the time, in seconds, and the speed. This was simple. $1 \cdot 9.8$, $2 \cdot 9.8$, $3 \cdot 9.8$ ect... If I knew how long it took, I would have been done. Since I don't, I have to find it. That is harder than it seems. Let's take a car. This car is going at 10 mph, never changes. To find how far it goes in 5 hours, you have to multiply the speed by the time. $5 \cdot 10 = 50$. Again, that is if the car is going at 10 mph, and never accelerates or decelerates.