The switch of the ciruit will first be connected to a and charges up the capacitor. After that, the switch is changed to b. How will the amplitude and the period of the oscillation current differ from the circuit below to an equivalent circuit, where the inductance L is changed to $\frac{1}{2}L$? Fill in the blank.

The amplitude will _____ with the factor of ___, the period will ____ with the factor of ___.

- a) increase, 2, decrease, $\frac{1}{2}$
- b) increase, $\sqrt{2}$, decrease, $\frac{1}{\sqrt{2}}$
- c) decrease, $\frac{1}{2}$, increase, 2
- d) decrease, $\frac{1}{\sqrt{2}}$, increase, $\sqrt{2}$
- e) decrease, $\frac{1}{\sqrt{2}}$, decrease, $\frac{1}{\sqrt{2}}$
- f) decrease, $\frac{1}{2}$, decrease, $\frac{1}{2}$

