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 $\qquad$ with the factor of $\qquad$ , the period will
$\qquad$ with the factor of $\qquad$ .
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, $\frac{1}{2}$

