| 9 | **C is the correct answer,** as $I = \dfrac{L}{4\pi d^2}$, so $\dfrac{L_C}{L_S} = \dfrac{I_C \times d_C^2}{I_S \times d_S^2} = \dfrac{I_C}{I_S} \times \dfrac{d_C^2}{d_S^2}$ | **(1)** |