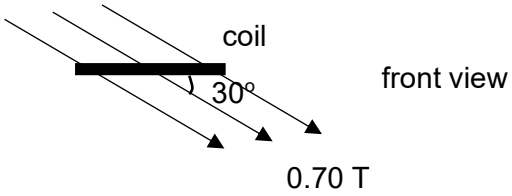
26 A square coil of area 16.0 cm^2 and resistance $2.0 \times 10^{-3}\ \Omega$ is mounted with its plane horizontal. The coil is situated in a magnetic field of strength 0.70 T directed downwards at 30° to the plane of the coil.



When the magnetic field is switched off, it decreases to zero at a uniform rate in 0.80 s.

What is the charge induced in the loop during the change in the magnetic field?

A 0.28 C

B 0.48 C

C 0.56 C

D 0.96 C