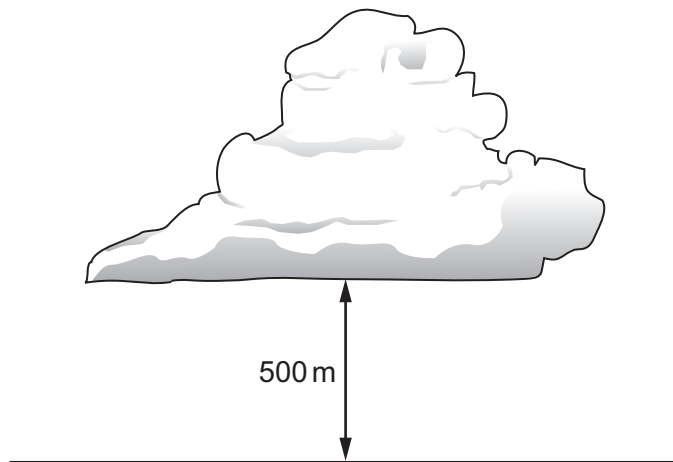


31 The diagram shows a thundercloud whose base is 500 m above the ground.



The potential difference between the base of the cloud and the ground is 200 MV. A raindrop with a charge of $4.0 \times 10^{-12} \text{ C}$ is in the region between the cloud and the ground.

What is the electrical force on the raindrop?

- A** $1.6 \times 10^{-6} \text{ N}$ **B** $8.0 \times 10^{-4} \text{ N}$ **C** $1.6 \times 10^{-3} \text{ N}$ **D** 0.40 N