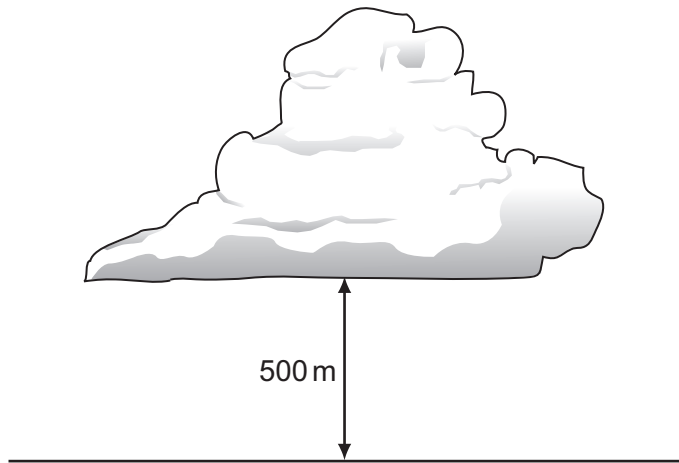


- 30** The diagram shows a thundercloud whose base is 500 m above the ground.



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**  $0.40 \text{ N}$