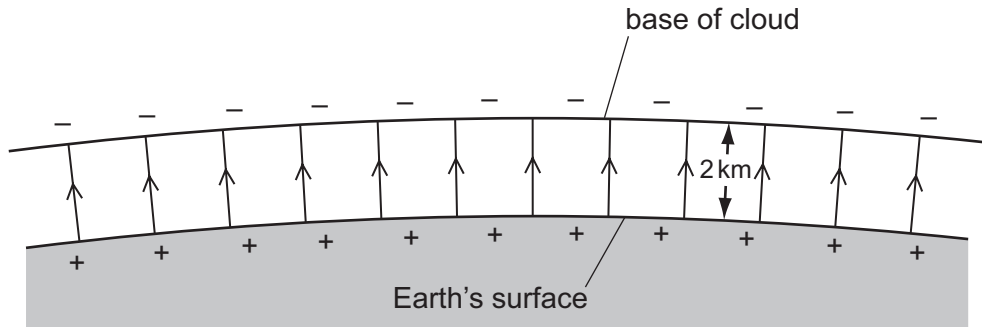


- 32** Lightning can occur between a charged cloud and the Earth's surface when the electric field strength in the intervening atmosphere reaches 25 kNC^{-1} . The diagram shows the electric field between the base of a cloud and the Earth's surface.



What is the minimum potential difference between the Earth and the base of a cloud, 2 km high, for lightning to occur?

- A** 12.5 MV **B** 25 MV **C** 50 MV **D** 100 MV

- 33** There is a current of 10 mA in a conductor for half an hour.