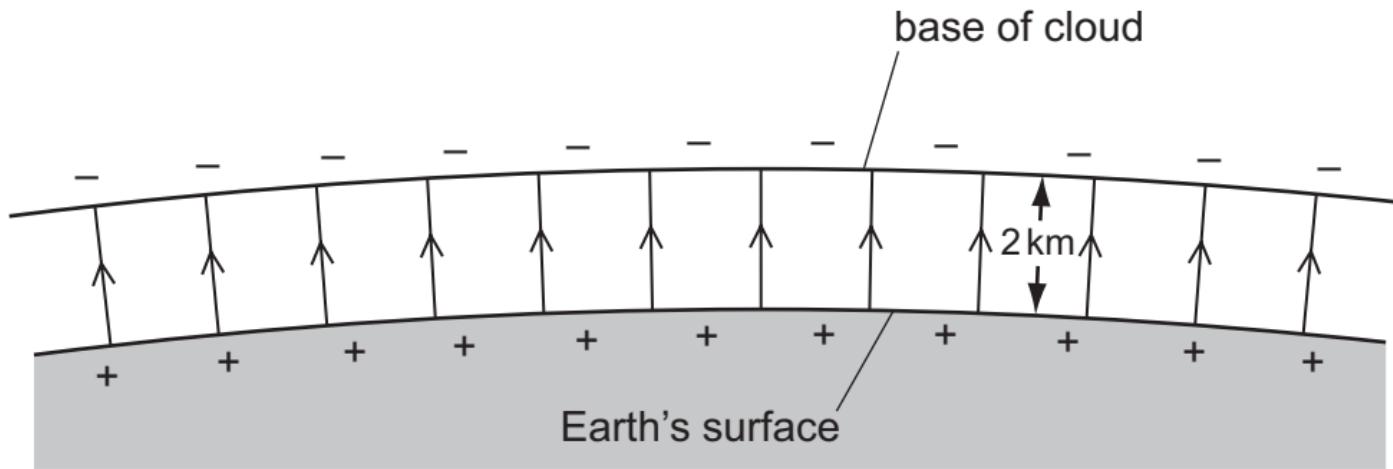


- 32 Lightning can occur between a charged cloud and the Earth's surface when the electric field strength in the intervening atmosphere reaches 25 kNC^{-1} . The diagram shows the electric field between the base of a cloud and the Earth's surface.



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.