

5 The electrostatic force between the two charges is initially F .

The charge on S_1 is doubled whilst the charge on S_2 is unchanged. The distance between S_1 and S_2 doubles.

Which of the following is the new force on S_2 ?

☐ **A** $\frac{F}{4}$

☐ **B** $\frac{F}{2}$

☐ **C** F

☐ **D** $2F$

(Total for Question 5 = 1 mark)