

- 8 When a point object with charge $+Q$ is placed a distance d away from another point object with charge $+2Q$ the force between them is F .

The charges are increased to $+2Q$ and $+4Q$ and the distance is increased to $2d$.

Which of the following gives the new force?

- ☐ A $\frac{F}{4}$
- ☐ B $\frac{F}{2}$
- ☐ C F
- ☐ D $2F$

(Total for Question 8 = 1 mark)