

**24** Two point charges each of charge  $Q$  at a separation of  $r$  repel each other with a force  $F$ .

Each charge is increased by adding  $2Q$ . The separation is increased to  $3r$ .

What is the force between the charges?

**A**  $\frac{4}{9} F$

**B**  $\frac{2}{3} F$

**C**  $F$

**D**  $\frac{3}{2} F$

