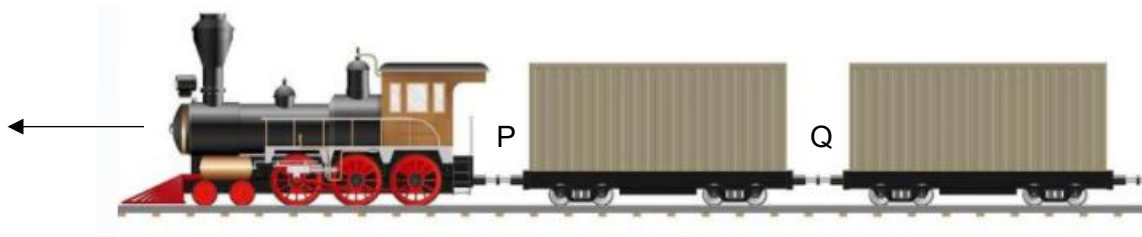


- 4 The diagram shows an engine and carriages accelerating as they leave the station.



The engine has a mass of  $2M$ , and each carriage has a mass  $M$ . Assume that resistive force is negligible. If the tension in the coupling P is  $F$ , then the tension in the coupling Q is

- A**  $F$                       **B**  $F/2$                       **C**  $F/3$                       **D**  $F/4$

