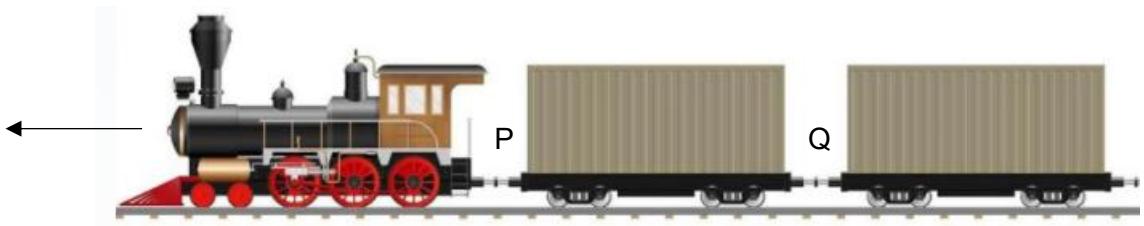


- 4 The diagram shows an engine and carriages accelerating as they leave the station.



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** $F/4$

