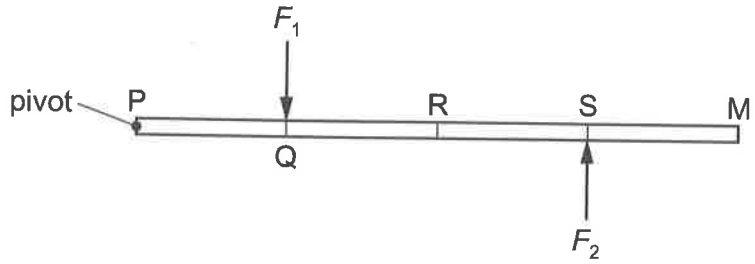
6 A uniform rod is pivoted at point P. Two forces, $F_1$ and $F_2$, are equal in magnitude and parallel. The forces act on the rod as shown.




The points P, Q, R, S and M on the rod are uniformly spaced. The two forces create a torque of magnitude $T$ on the rod.

The magnitude of each of the forces is halved, and $F_2$ is moved to the left so that it acts at point R.

What is the magnitude of the torque on the rod now?

**A** $\frac{T}{8}$ **B** $\frac{T}{4}$ **C** $\frac{T}{2}$ **D** $T$