**10*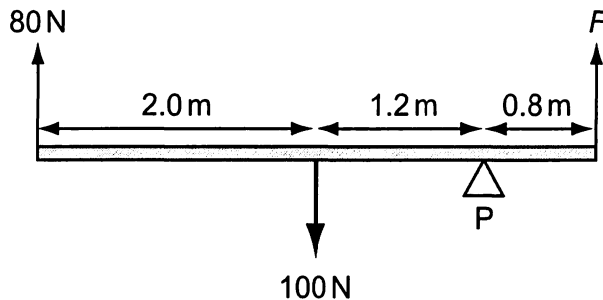* A light horizontal rod is pivoted at a point P. A 100 N weight hangs from the rod and an 80 N upward force acts at one end.

A force F acts at the other end to keep the rod in equilibrium.

What is the value of F?

A 20 N   **B** 45 N   **C** 170 N   **D** 470 N