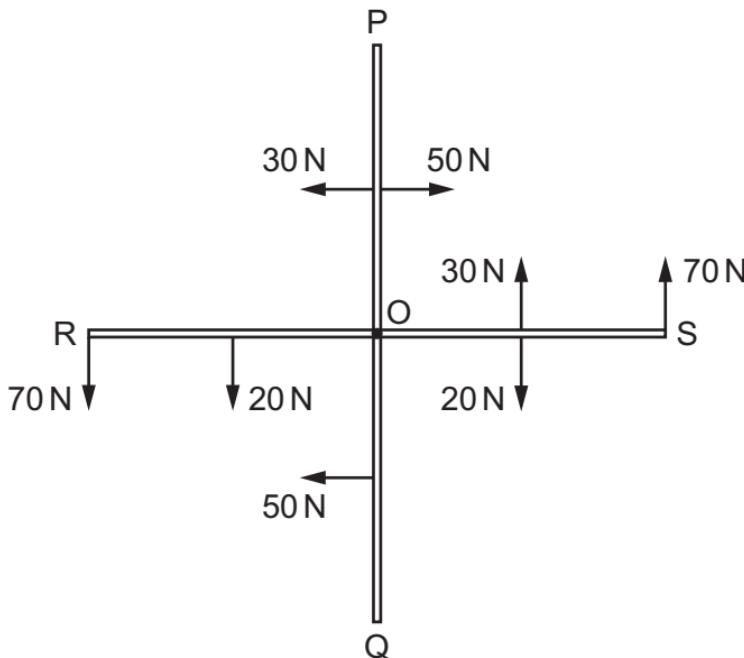


- 17 A rigid cross-shaped structure having four arms PO, SO, QO and RO, each 1.00 m long, is pivoted at O. Forces act on the ends of the arms and on the midpoints of the arms as shown.



What is the magnitude of the resultant moment on the structure about O?

A 45 Nm

B 90 Nm

C 120 Nm

D 190 Nm

- 18 On the surface of a planet, 20 J of work is done against gravity to raise a mass of 1.0 kg through a