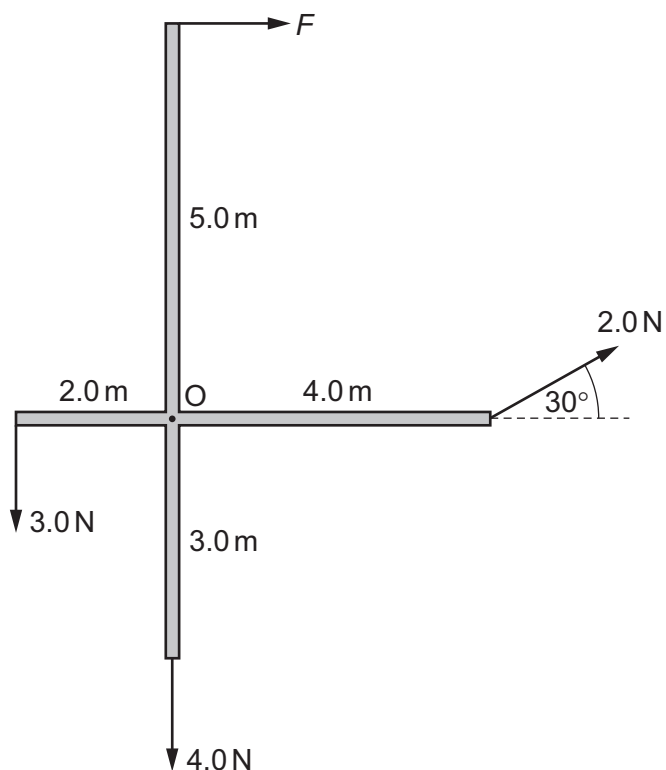


- 15** A cross-shaped structure, freely pivoted at O, has arms of lengths 5.0 m, 4.0 m, 3.0 m and 2.0 m. It is acted on by forces of 2.0 N, 3.0 N, 4.0 N and an unknown force  $F$ . The structure is in rotational equilibrium.



What is the magnitude of force  $F$ ?

- A** 0.40 N      **B** 2.0 N      **C** 2.6 N      **D** 4.4 N