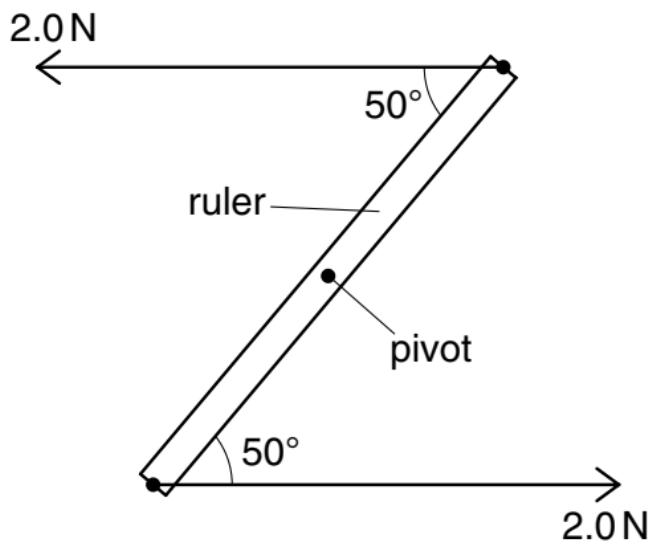


- 13 A ruler of length 0.30 m is pivoted at its centre. Equal and opposite forces of magnitude 2.0 N are applied to the ends of the ruler, creating a couple as shown.



What is the magnitude of the torque of the couple on the ruler when it is in the position shown?

- A 0.23 Nm B 0.39 Nm C 0.46 Nm D 0.60 Nm

- 14 A cylindrical block of wood has a cross sectional area A and weight W . It is totally immersed in