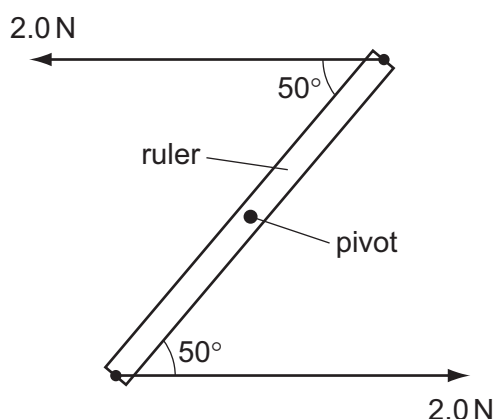
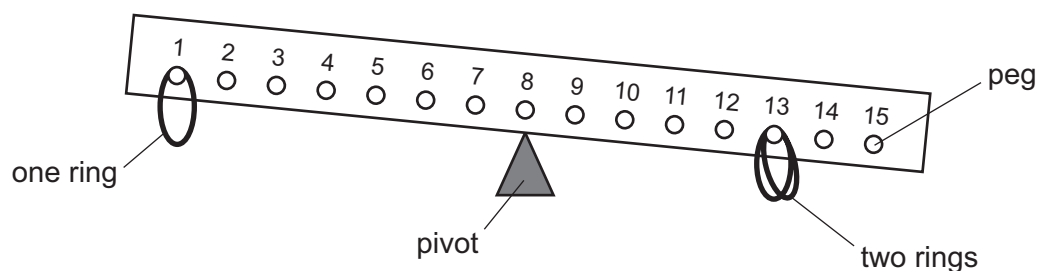


- 14** A ruler of length 0.30 m is pivoted at its centre. Equal and opposite forces of magnitude 2.0 N are applied to the ends of the ruler, creating a couple as shown.



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

- A** 0.23 N m **B** 0.39 N m **C** 0.46 N m **D** 0.60 N m
- 15** The diagram shows a child's balancing game.



The wooden rod is uniform and all the rings are of equal mass. Two rings are hung on peg 13 and one on peg 1.

On which hook must a fourth ring be hung in order to balance the rod?

- A** 2 **B** 3 **C** 5 **D** 6

Space for working