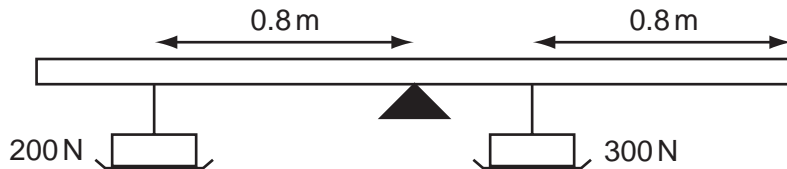


**15** A rigid uniform bar of length 2.4 m is pivoted horizontally at its mid-point.



Weights are hung from two points of the bar as shown in the diagram. To maintain horizontal equilibrium, a couple is applied to the bar.

What is the torque and direction of this couple?

- A** 40 N m clockwise
- B** 40 N m anticlockwise
- C** 80 N m clockwise
- D** 80 N m anticlockwise

**16** What is the internal energy of an object?