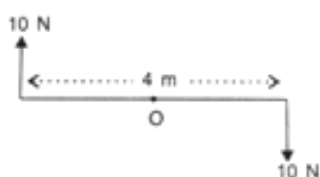
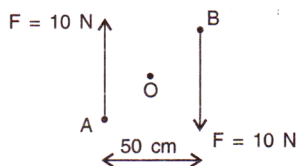


- State the condition when a force produces
 (A) Translational motion ,
 (B) Rotational motion, in a body
- State two factors on which moment of force about a point depends.
- Two forces each of magnitude 10 N act vertically upwards and downwards respectively on the two ends of a uniform rod of length 4 m which is pivoted at its midpoint as shown in figure . Determine the magnitude of resultant moment of forces about the pivot O.



- Shows two forces each of magnitude 10 N acting at the points A and B at a separation of 50 cm, in opposite directions. Calculate the resultant moment of the two forces about the point (i) A, (ii) B and (iii) O, situated exactly at the middle of the two forces.



- The diagram below shows a uniform bar supported at the middle point O. A weight of 40 gf is placed at a distance 40 cm to the left of the point O. How can you balance the bar with a weight of 80 gf?

