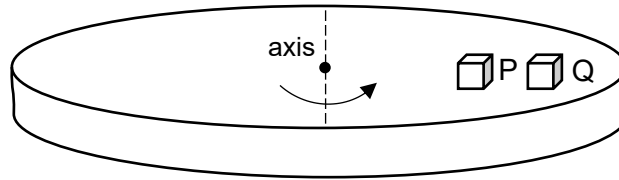


- 9 Two identical objects, P and Q, are placed on a flat rough circular disc. Q is at a further distance from the centre of the disc compared to P.



The disc starts spinning from rest about its central axis with increasing speed. At a certain speed, one of the objects starts to slide off the disc.

Q slides off the disc first because

- A the friction experienced by P and Q are always equal.
- B it moves with a larger angular velocity compared to P.
- C it requires greater friction to keep it in its position compared to P.
- D the friction experienced by P is larger than Q before one of the objects slide off the disc.