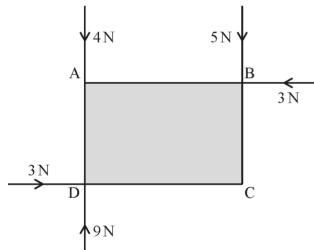
length of AD is 18 cm. The following five forces act on the book, as shown in the diagram.
4N at A in the direction AD
5N at B in the direction BC
3N at B in the direction BA
9N at D in the direction DA
3N at D in the direction DC

A rectangular book ABCD rests on a smooth horizontal table. The length of AB is 28 cm and the



(h) Find the total moment of the forces shout the centre of the healt Cive your engages in No.

[2]

[3]

[2]

- **(b)** Find the total moment of the forces about the centre of the book. Give your answer in Nm.
- (b) I find the total moment of the forces about the centre of the book. Give your answer in 14th
- (c) Describe how the book will move under the action of these forces.

(a) Show that the resultant of the forces acting on the book has zero magnitude.