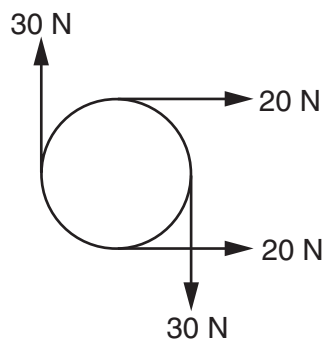


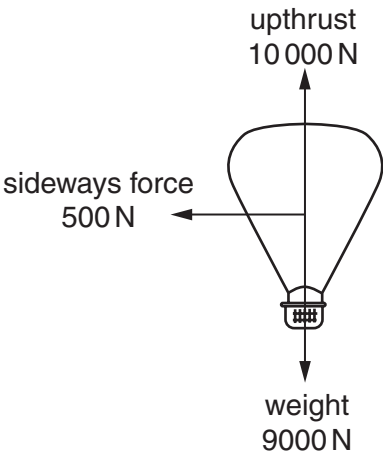
13 The diagram shows four forces applied to a circular object.



Which of the following describes the resultant force and resultant torque on the object?

| | resultant force | resultant torque |
|---|-----------------|------------------|
| A | zero | zero |
| B | zero | non-zero |
| C | non-zero | zero |
| D | non-zero | non-zero |

14 A balloon is acted upon by three forces, weight, upthrust and sideways force due to the wind, as shown in the diagram.



What is the vertical component of the resultant force on the balloon?

- A 500 N B 1000 N C 10 000 N D 10 500 N