

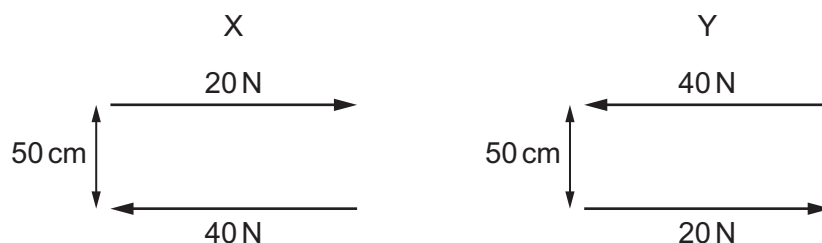
- 10** A solid sphere, which is less dense than water, is held completely immersed in water a few metres below the surface. The density of the water is uniform.

The sphere is released. Immediately after release, the sphere rises.

Which row correctly describes the changes in the upthrust on the sphere and the resultant force on the sphere?

	upthrust on the sphere	resultant force on the sphere
<b>A</b>	constant	increasing
<b>B</b>	constant	decreasing
<b>C</b>	decreasing	increasing
<b>D</b>	decreasing	decreasing

- 11** The diagram shows two pairs X and Y of parallel forces.



Which statement is correct?

- A** X is equivalent to a clockwise torque of 10 N m and a force of 20 N to the left.
- B** X is equivalent to a clockwise torque of 20 N m only.
- C** Y is equivalent to an anticlockwise torque of 30 N m and a force of 20 N to the left.
- D** Y is equivalent to an anticlockwise torque of 30 N m only.