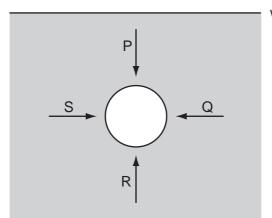
11 The diagram represents a sphere under water. P, Q, R, and S are forces acting on the sphere, due to the pressure of the water.



water surface

Each force acts perpendicularly to the sphere's surface. P and R act in opposite directions vertically. Q and S act in opposite directions horizontally.

Which information about the magnitudes of the forces is correct?

- A P < R; S = Q
- **B** P>R; S=Q
- **C** P=R; S=Q
- **D** P=R=S=Q

**Space for working**