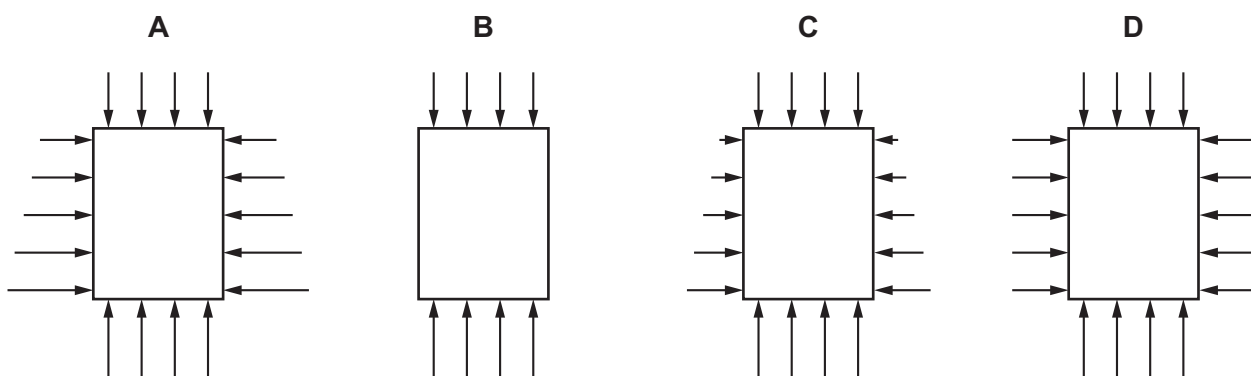


- 12 A block is submerged vertically in a liquid. The four diagrams show, to scale, the forces exerted by the liquid on the block.

Which diagram correctly shows a possible situation as viewed from the side?



- 13 A rigid circular disc of radius  $r$  has its centre at  $X$ . A number of forces of equal magnitude  $F$  act at the edge of the disc. All the forces are in the plane of the disc.

Which arrangement of forces provides a moment of magnitude  $2Fr$  about  $X$ ?

