Perpendicular Axes Theorem ( **for lamina** **ONLY** )

Z

X

Y

If **Ix** , **Iy** are MI of lamina about OX and OY in the plane of the lamina, **Iz** is the MI about the perpendicular axis OZ, then **Iz = Ix + Iy**

Examples:-

1. Uniform rectangular lamina
2. Uniform cuboid of mass *m*. Calculate MI about an edge of length *h*.

Note:- The MI of lamina and cuboid are equal ( stretch rule )

MI of lamina and rod is also the same ( depending on the direction of stretch )