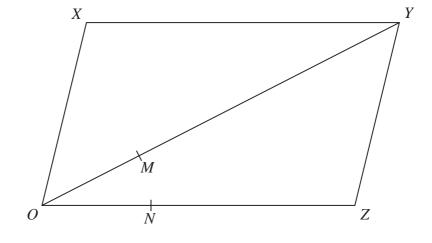
15 *OXYZ* is a parallelogram.



$$\overrightarrow{OY} = \mathbf{a} \text{ and } \overrightarrow{OZ} = \mathbf{b}$$

M is the point on OY such that OM:MY = 1:3N is the point on OZ such that ON:NZ = 1:2

Work out the ratio XN: MN You must show all your working.