4–145. Replace the loading by an equivalent resultant force and couple moment acting at point $O$. 

![Diagram of distributed loadings]
4–151. Replace the loading by a single resultant force, and specify the location of the force measured from point $O$. 

![Diagram of a beam with loads labeled 500 kN·m, 6 kN/m, and 15 kN, and distances 7.5 m and 4.5 m.]
4-155. Replace the distributed loading by an equivalent resultant force and specify where its line of action intersects a vertical line along member $BC$, measured from $C$. 