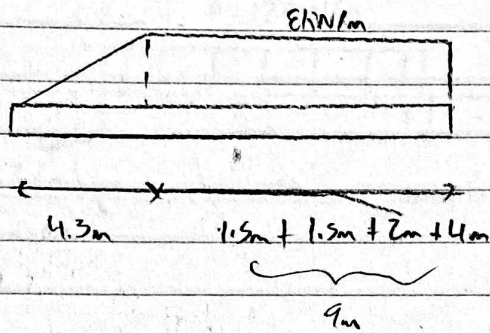


Solution: 21-5-4.9-MK-01



$$F = \underbrace{(4.3 \text{ m})(8 \text{ kN/m})(\frac{1}{2})}_{17.2 \text{ kN}} + \underbrace{(9 \text{ m})(8 \text{ kN})}_{72 \text{ kN}} = 89.2 \text{ kN}$$

$$d = \frac{(17.2 \text{ kN})(4.3 \text{ m})(\frac{2}{3}) + (72 \text{ kN})(4.5 + 4.3)}{89.2} = 7.655 \text{ m}$$