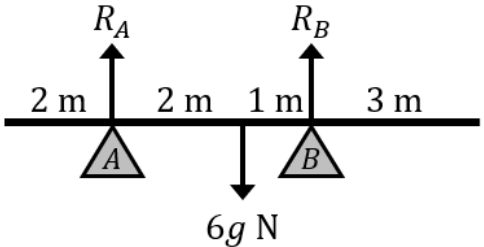
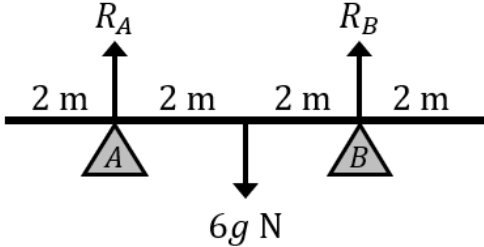
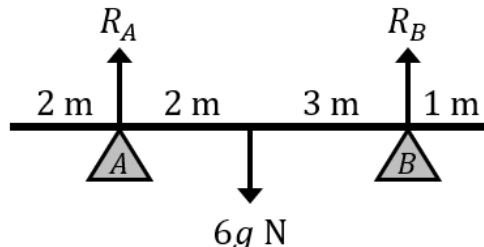
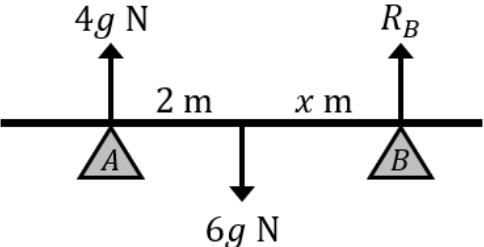
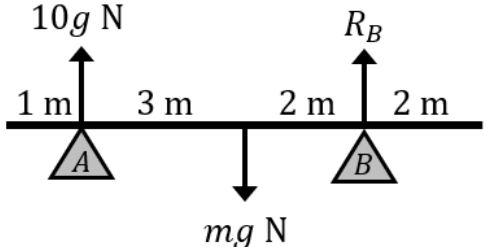
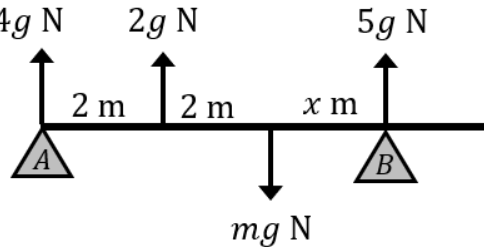
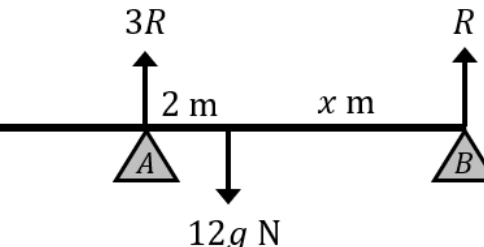
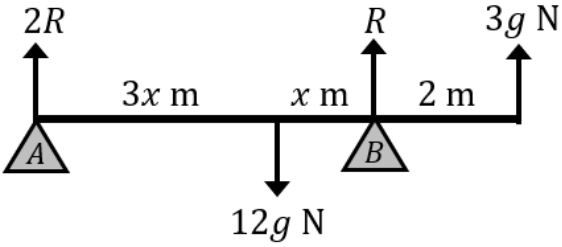
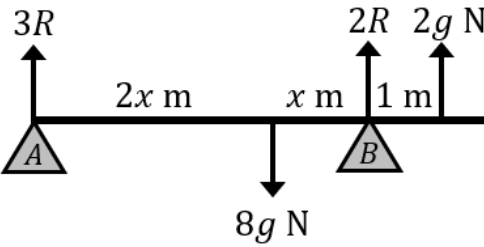


Moments and Equilibrium

Each of these beams is in equilibrium. Find any missing forces, masses or lengths.

(a)	(b)	(c)
 <p style="text-align: center; color: red;">$R_A = 2g \text{ N}$ $R_B = 4g \text{ N}$</p>	 <p style="text-align: center; color: red;">$R_A = 3g \text{ N}$ $R_B = 3g \text{ N}$</p>	 <p style="text-align: center; color: red;">$R_A = 3.6g \text{ N}$ $R_B = 2.4g \text{ N}$</p>
(d)	(e)	(f)
 <p style="text-align: center; color: red;">$x = 4 \text{ m}$ $R_B = 2g \text{ N}$</p>	 <p style="text-align: center; color: red;">$R_B = 15g \text{ N}$ $m = 25 \text{ kg}$</p>	 <p style="text-align: center; color: red;">$m = 11 \text{ kg}$ $x = 4 \text{ m}$</p>
(g)	(h)	(i)
 <p style="text-align: center; color: red;">$R = 3g \text{ N}$ $x = 6 \text{ m}$</p>	<p style="text-align: center;">The beam is non-uniform.</p>  <p style="text-align: center; color: red;">$R = 3g \text{ N}$ $x = 0.5 \text{ m}$</p>	<p style="text-align: center;">The beam is non-uniform.</p>  <p style="text-align: center; color: red;">$R = 1.2g \text{ N}$ $x = \frac{5}{7} \text{ m}$</p>