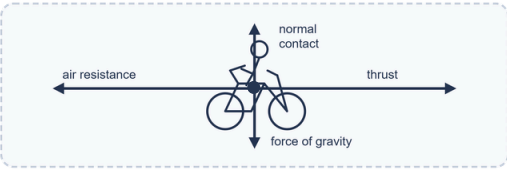
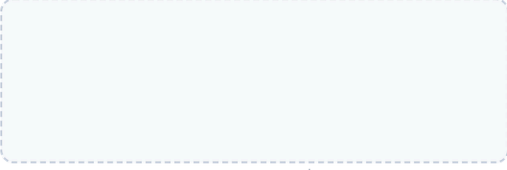


Balanced and Unbalanced Forces

Instructions: the force diagrams are scaled diagrams. Label the forces, tick the correct boxes, then calculate the missing forces and the resultant force on the object. Use $g = 10 \text{ N/kg}$.

Label the forces	Tick the correct boxes & calculate the weight	Calculate the other forces, then the resultant force (including direction)
1  ☐ Balanced force ☐ Unbalanced force ☐ Change in velocity ☐ Contact ☐ Non-contact Resultant force = _____ N _____ Weight = _____ N	2  ☐ Balanced force ☐ Unbalanced force ☐ Change in velocity ☐ Contact ☐ Non-contact Resultant force = _____ N _____ Weight = _____ N	
3  ☐ Balanced force ☐ Unbalanced force ☐ Change in velocity ☐ Contact ☐ Non-contact Resultant force = _____ N _____ Weight = _____ N	4  ☐ Balanced force ☐ Unbalanced force ☐ Change in velocity ☐ Contact ☐ Non-contact Resultant force = _____ N _____ Weight = _____ N	
5  ☐ Balanced force ☐ Unbalanced force ☐ Change in velocity ☐ Contact ☐ Non-contact Resultant force = _____ N _____ Weight = _____ N	6  ☐ Balanced force ☐ Unbalanced force ☐ Change in velocity ☐ Contact ☐ Non-contact Resultant force = _____ N _____ Weight = _____ N	

Formula to Calculate Weight

Example