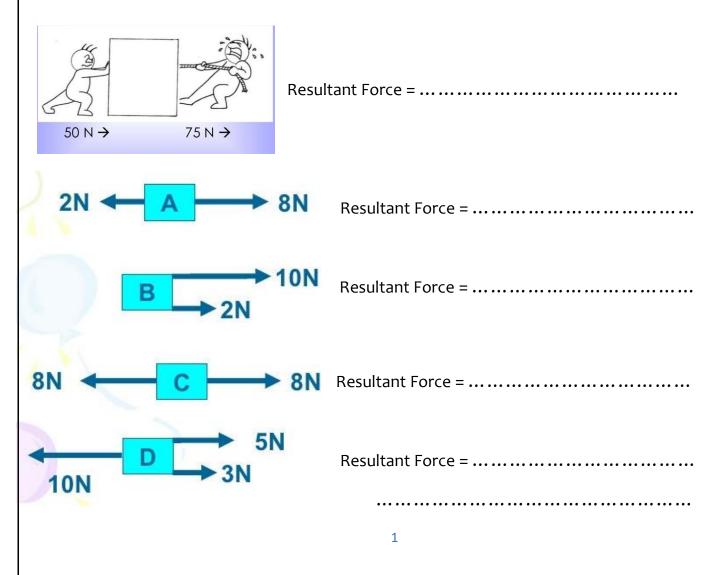
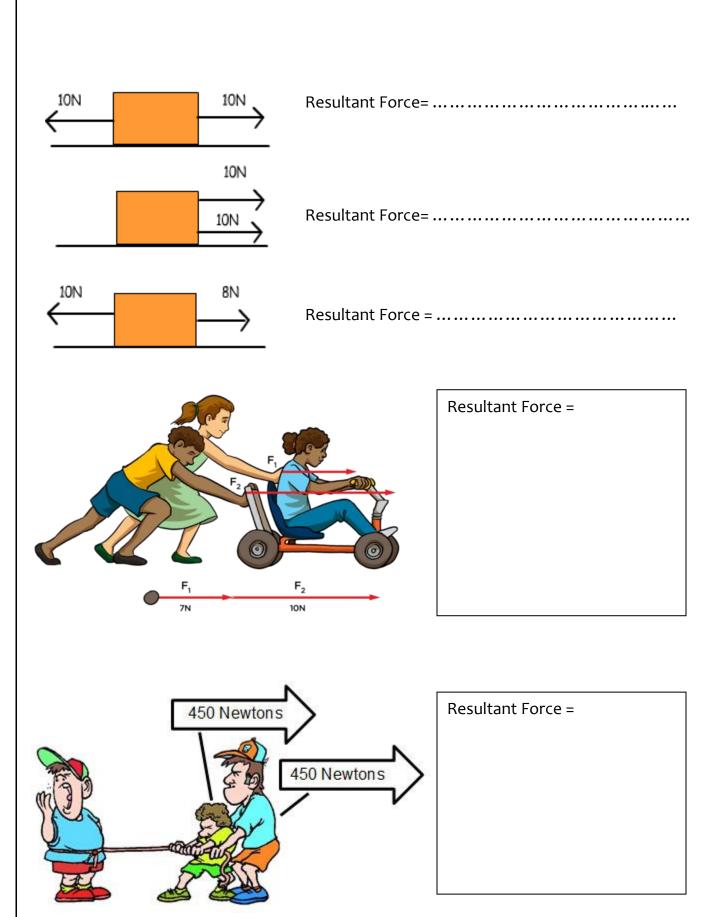


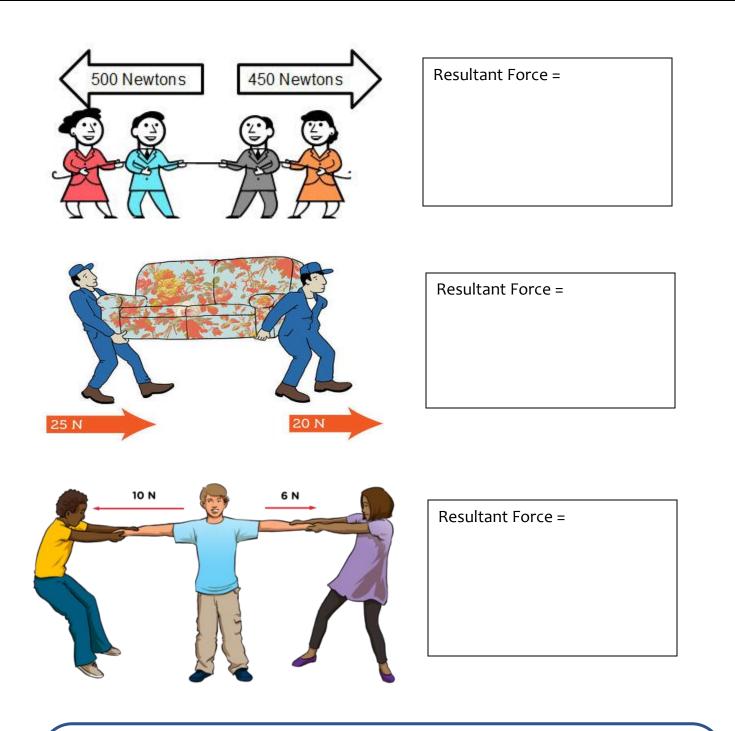
**Objective/s:** 

- Identify balanced and unbalanced forces acting on different objects, and calculate the resultant force.

## Q1: Find the resultant force in each of the following situations:



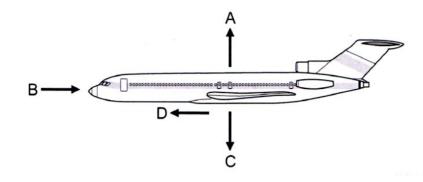




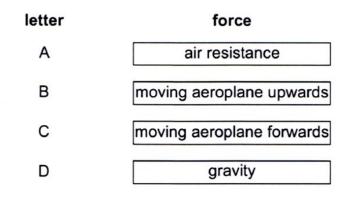
**Balanced forces do not cause a change in the object's motion.** When balanced forces act on a moving object, the object will continue moving at the same speed in the same direction.

**Unbalanced forces change the motion of an object**, they may cause the object to speed up, slow down or change direction.

The picture shows an aeroplane flying. Q2:



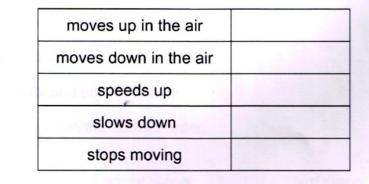
(a) Draw a line to connect each letter to the correct force.



(b) The force moving the aeroplane forward is increased more than the air resistance.

What happens to the aeroplane?

Tick (✓) one box.



(c) Write down one way air resistance can be reduced.