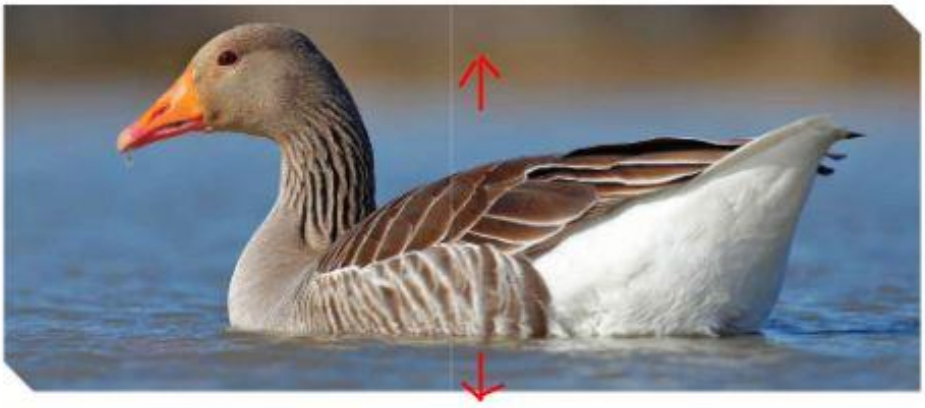
Practice Worksheet

1. Tick (✓) the correct box beside each sentence.

	True	False
Forces always act in a pair.	☑	☐
Having less friction between surfaces results in slower motion.	☐	☑
A moving object always experiences unbalanced forces acting on it.	☐	☑
Objects at rest have no force acting on them.	☐	☑
In a force diagram, the size of forces is indicated by the length of the arrows drawn.	☑	☐

2. A duck is resting on the surface of the water. It is not moving.



(a) What are the **two** forces that allow the duck to stay in this position on the water surface?

__ Gravity __ and __ Upthrust

(b) Draw arrows to show the forces acting on the duck in the picture above.

3. Lena is shopping for a pair of shoes. She observes that the soles of the shoes are designed as shown in the picture.

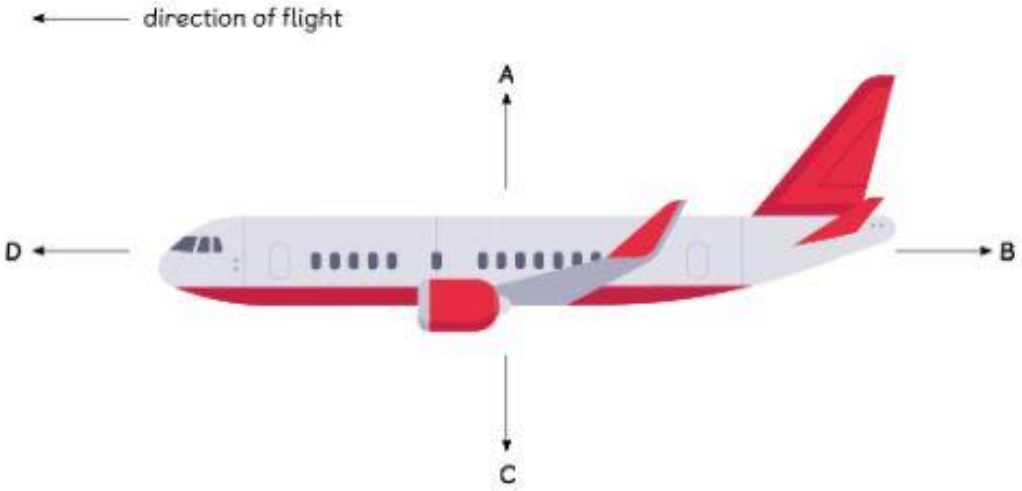
Circle the reason for the design of the soles.

to increase the gravity acting on the shoes

to make the shoes heavier

to prevent people from slipping while walking

4. The diagram shows four forces acting on an aeroplane in flight.



(a) Which arrow represents air resistance?

B

(b) For the aeroplane to remain at the same height, which **two** forces must be balanced?

A and C