

## Worksheet 2 |

Lower Secondary  
Stage (6-8)

1<sup>st</sup> Semester | 2023-2024

Name:

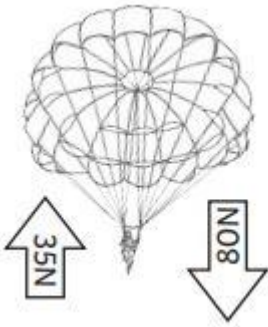
Subject: Science

Objectives:

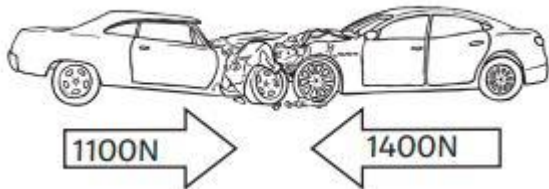
Garde 7 A

- To identify forces acting on objects.
- To calculate the resultant force acting on different objects

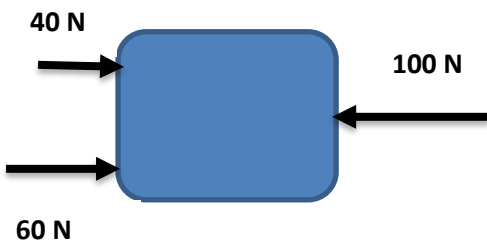
**Question 1:** Calculate the resultant force in each of the following situations:



Resultant force: \_\_\_\_\_.



Resultant force: \_\_\_\_\_.



Resultant force: \_\_\_\_\_.

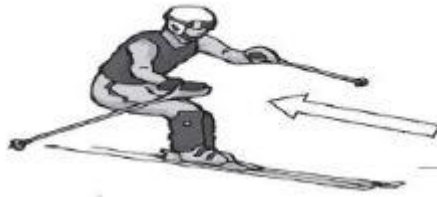


Resultant force: \_\_\_\_\_.

**Question 2:** Look at the pictures below. Write the name of the forces next to the arrows.



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_

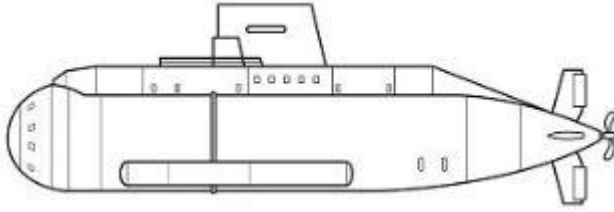
**Question 3:** Draw a force diagram for the following situations.




A boy sitting on a chair.



A falling ball



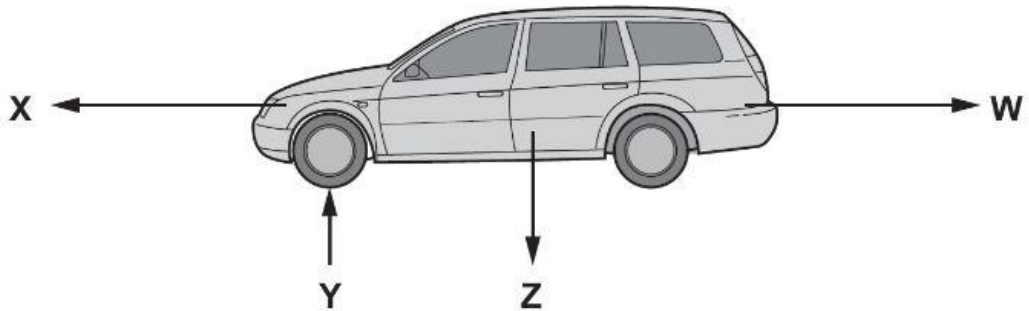
A submarine is moving to the 



A boy is cycling

**Question 4 :**

Cars have different forces acting on them.



The car is **moving** in the direction of arrow X.

a) Which letter shows the weight of the car? \_\_\_\_\_ .

b) which letter shows the air resistance? \_\_\_\_\_ .

c) Draw an arrow to show the direction of friction acting on the car:

d) If the forward force acting on this car is equal to the total backward forces then:

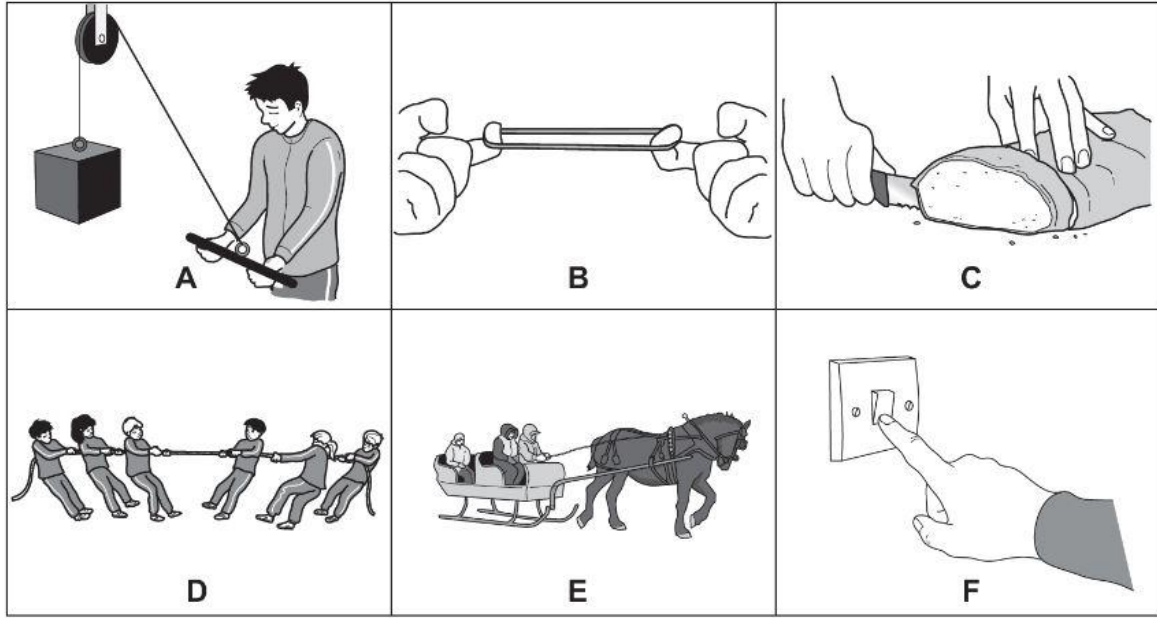
Tick the correct box:

- The forces are unbalanced and the car will speed up.
- The forces are balanced and the car will stop moving.
- The forces are balanced and the car will continue moving in the same speed and direction.

**Question 5 :**

Forces can be pushes or pulls.

Here are six pictures.



**Write the letter that represents the following**

Pushing force: \_\_\_\_\_.

Pulling force: \_\_\_\_\_.

**Question 6 :**

Complete the sentences about friction.

Choose from the list.

- easier                      force                      gravity                      harder
- material                      move                      the same

Friction is a .....

Friction happens when two touching surfaces .....

Friction makes movement .....