Alavi

21st Century Schools


PUSH
PULL

Session 39

Lead-in: throwing some objects up

- Both light and heavy things
- Asking (Why do they all fall on the floor?)

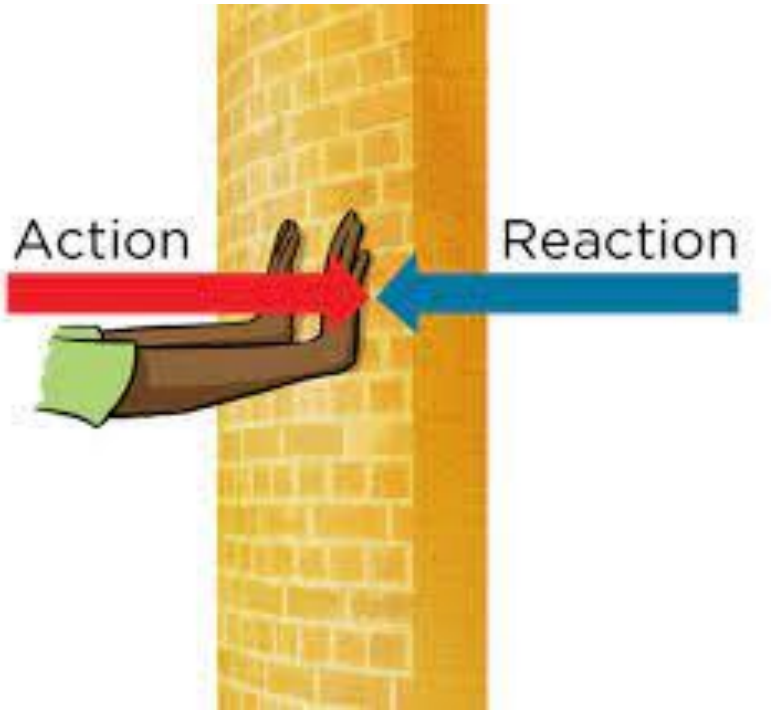
Force

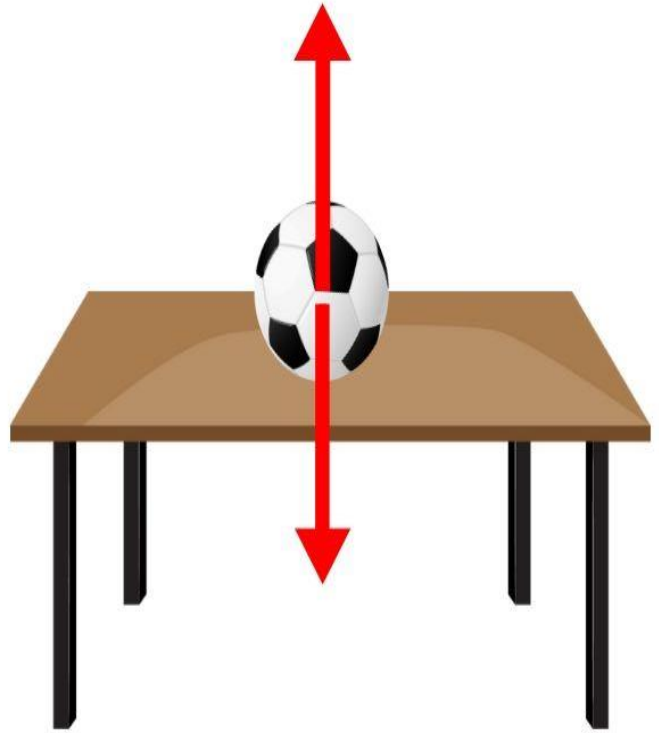
push

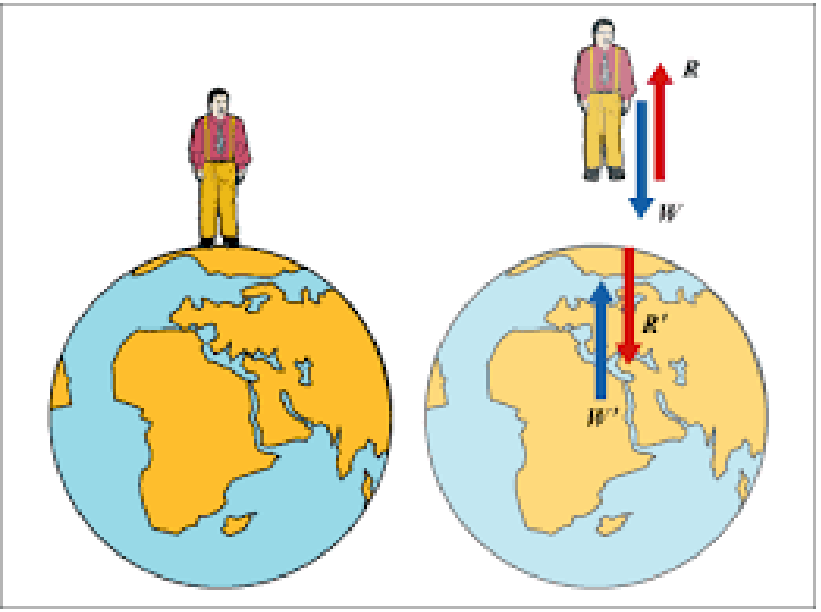
pull

downwards

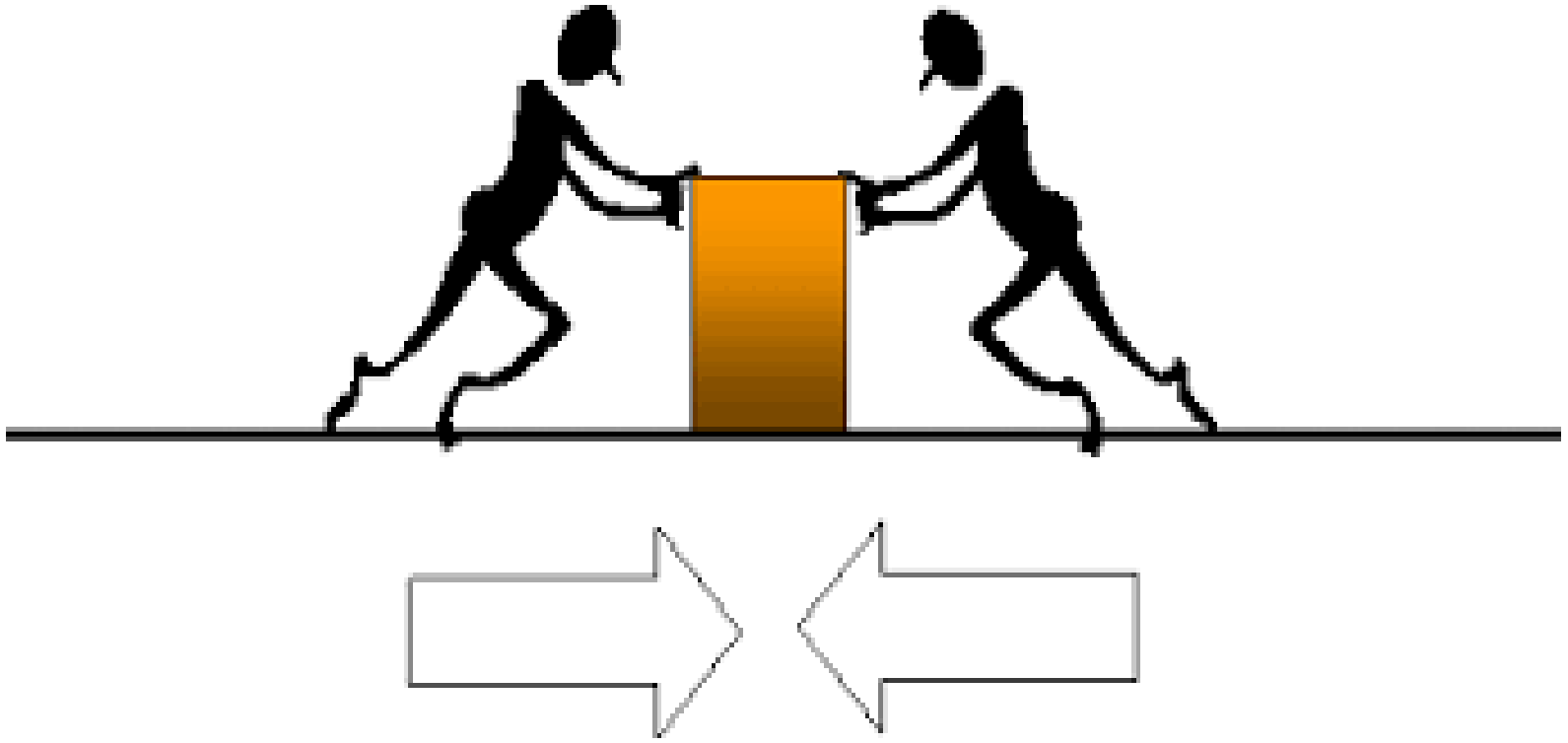
gravity

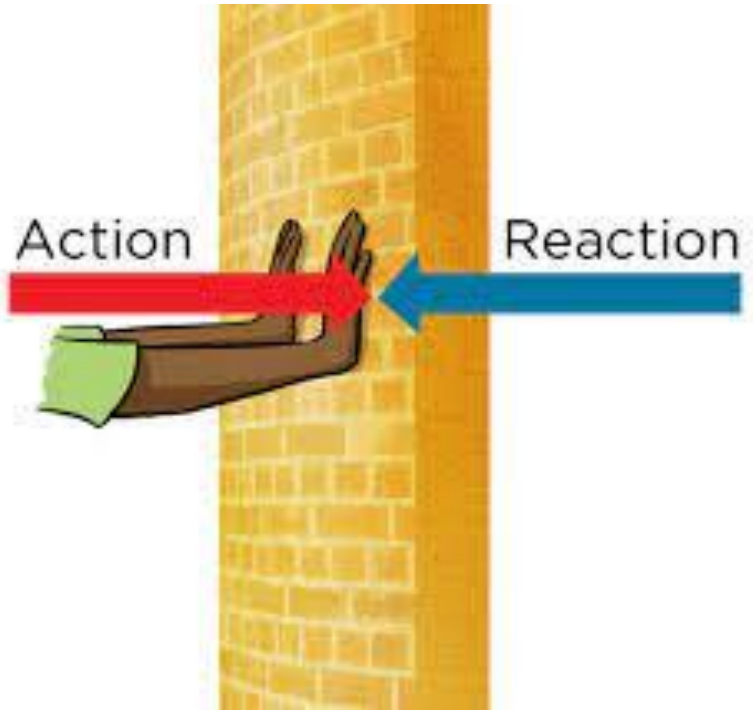




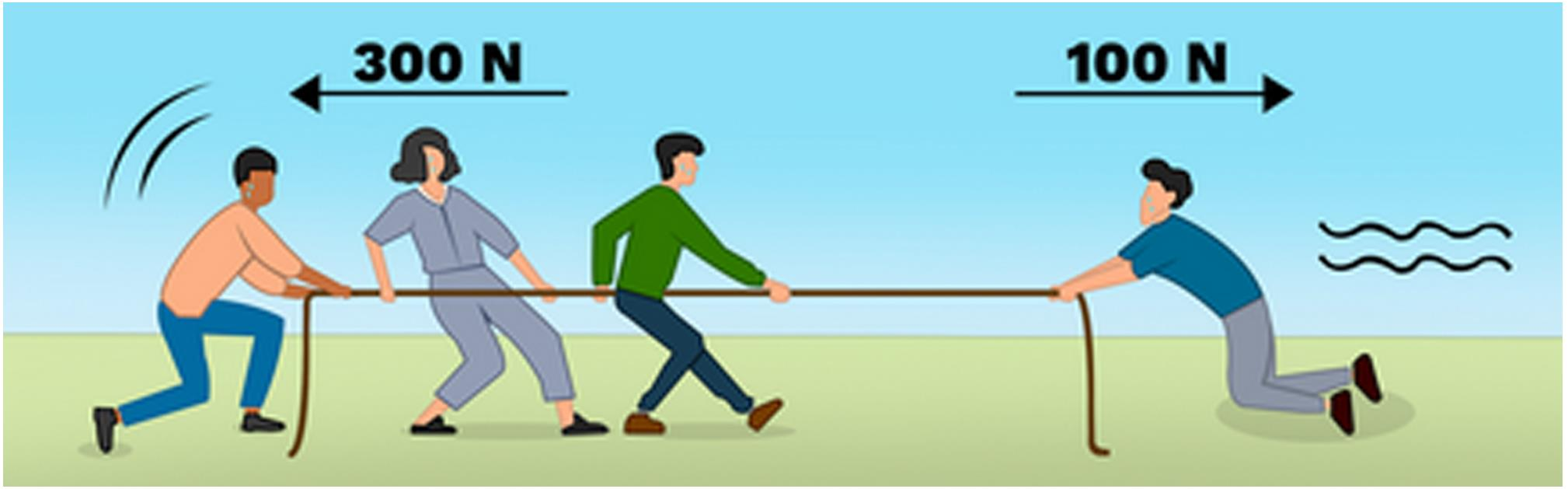


Forces always act in pairs (2) of opposite directions.





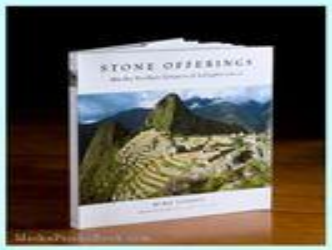
When forces are the same size, they are balanced. And the object doesn't move.



If one force is bigger, they are unbalanced.
The object moves towards the bigger force..

Balanced

A



G

C

B

H

Unbalanced

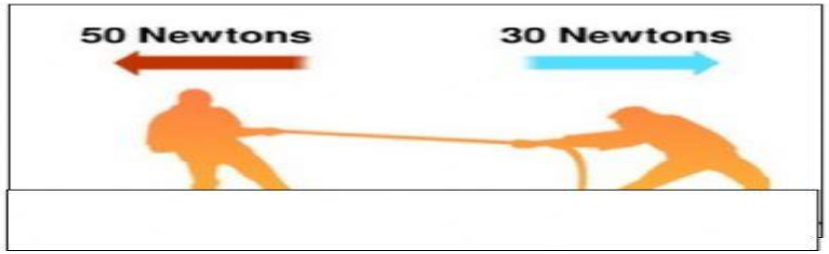
I

F

D

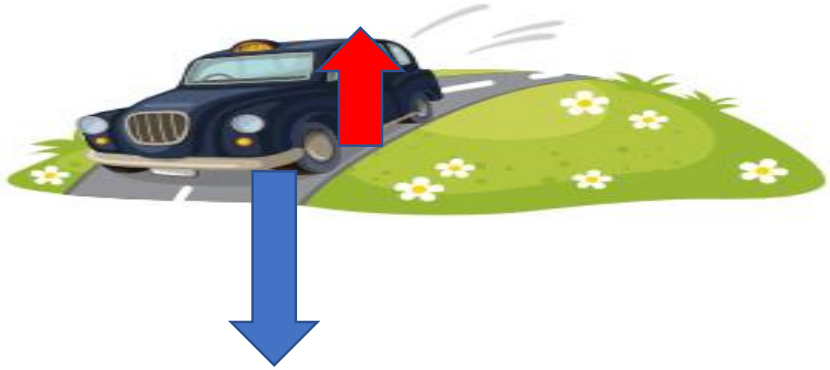
E

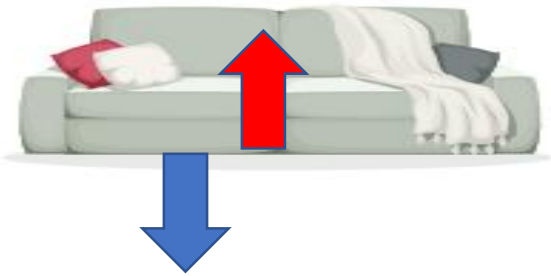
J

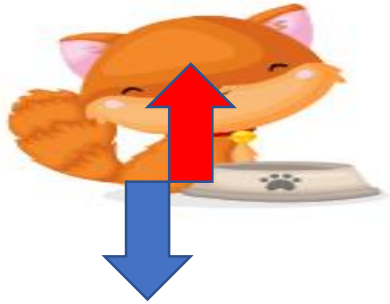


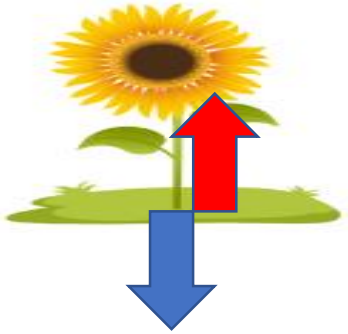
Are they balanced or unbalanced?

Show the forces.










Sessions
40/41


PUSH
PULL

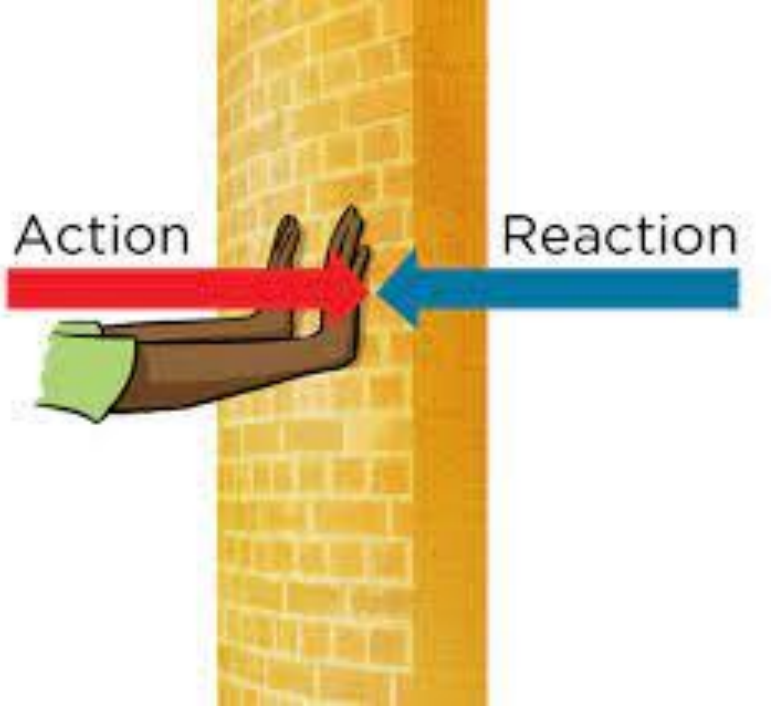

REVIEW

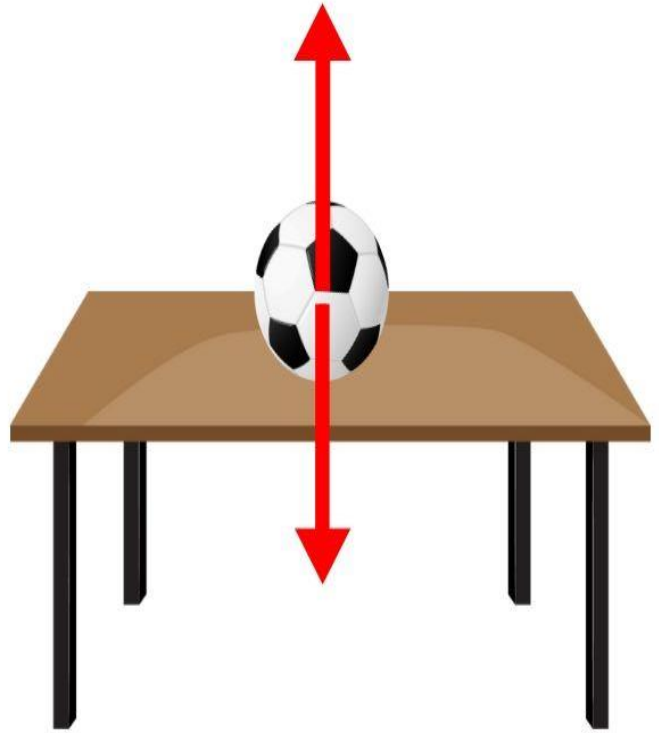
g… .

G

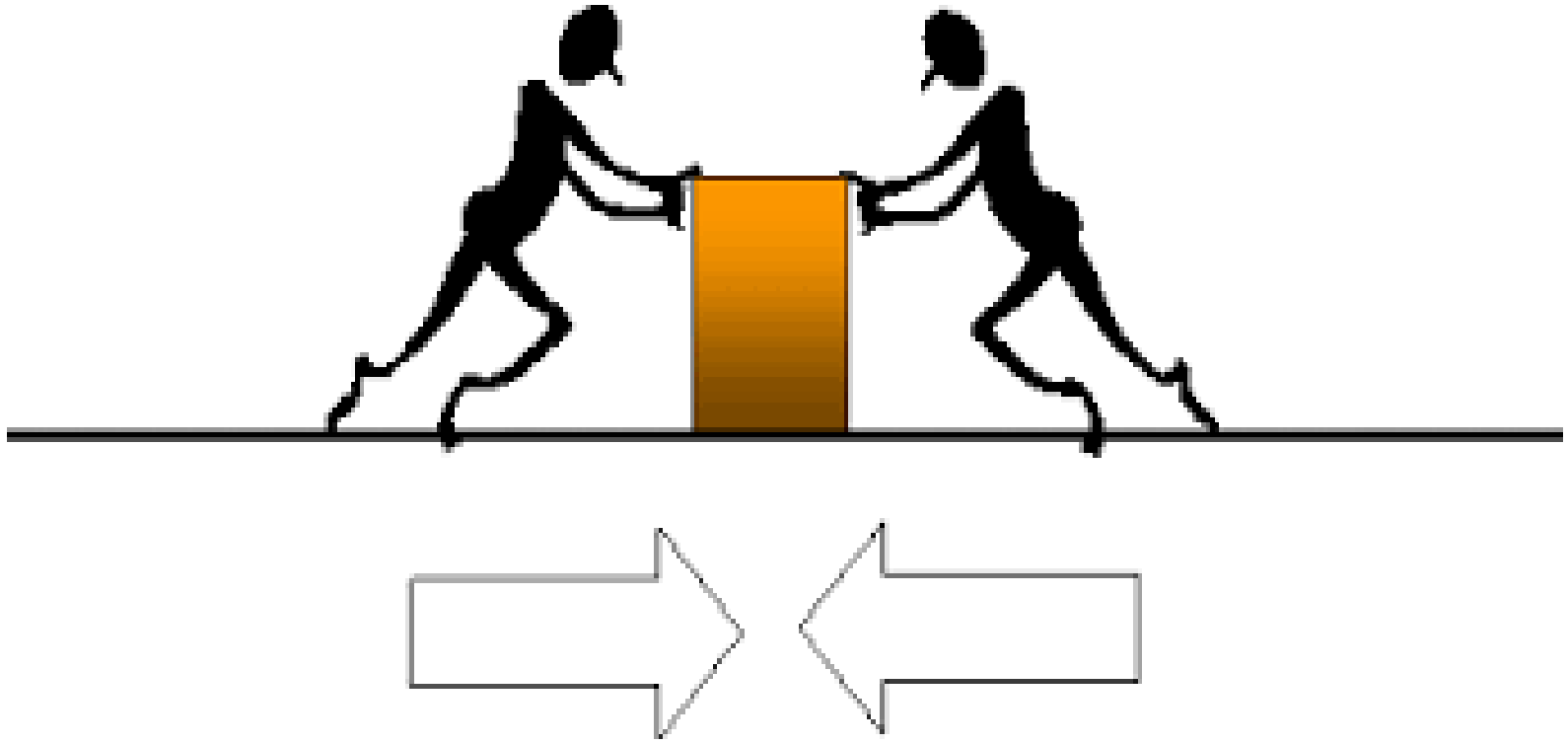
The mai8n 3 types of forces are:

Gravity
Push
Pull

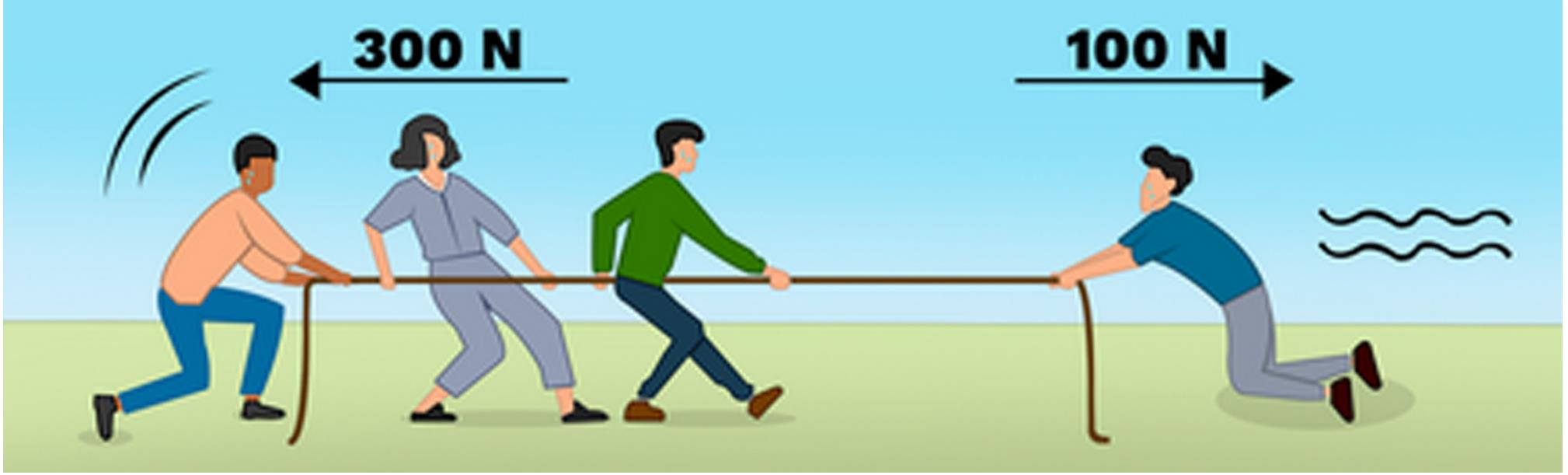




p… o…



it remains (=stays) stationary (without moving).



u…

b…

Draw the forces.

Pair work

Answer the questions:

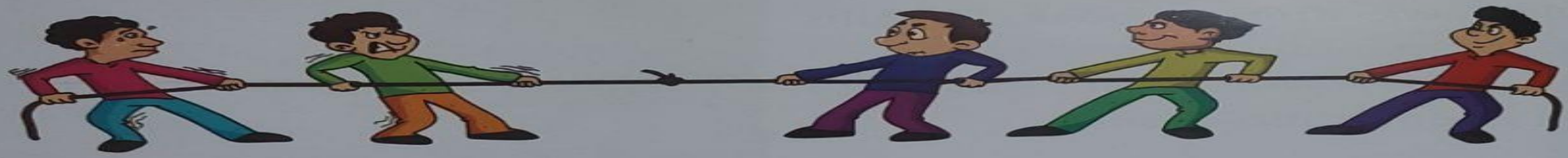
1. Name 3 types of forces.
2. What does "stationary" mean?
3. In an unbalanced force, how does the object move?
4. Draw one example for balanced force and one example for unbalanced force.

Identify the forces acting on a bicycle.

Look at the picture of the boy on the bicycle.
Draw arrows on the picture to show the direction of the forces acting on the bicycle.

p41

Balanced and unbalanced forces



In this exercise, you will consider balanced and unbalanced forces: Look at the picture and underline the correct words to make each of the sentences true.

1) The forces shown are pushing / pulling forces.
2) The forces shown are working together / opposite forces.
3) The forces are equal / not equal.
4) The forces do / do not balance each other.
5) The bigger force is pulling to the right / left.
6) The smaller force is pulling to the right / left.
7) Movement is to the right / left.

p42

Draw a force diagram to show the forces acting in the picture.