



## How do forces act?

Fill in the following table.

Forces acting	Balanced or unbalanced?	What happen to the box?

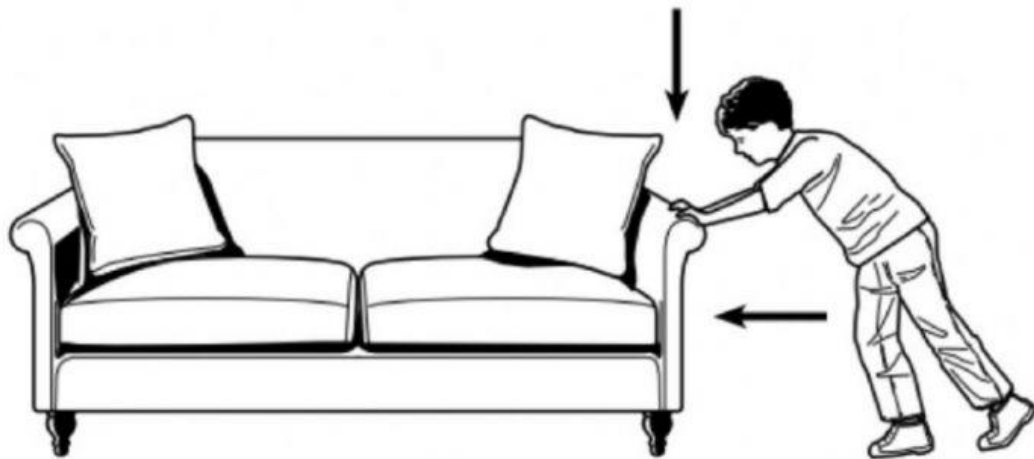
Fill in the blanks with the correct words.

1. The \_\_\_\_\_ of each force is shown by the arrowhead, the \_\_\_\_\_ of each force is shown by the length of the arrow.
2. Forces are acting in \_\_\_\_\_ directions.
3. When two forces are \_\_\_\_\_, object does not move.
4. A \_\_\_\_\_ shows the different forces acting on an object.
5. When two forces are \_\_\_\_\_, object at rest will start moving.
6. If an object is moving, \_\_\_\_\_ forces will change the object's speed or direction.
7. When we apply a force to make an object move, we \_\_\_\_\_ energy from our body to the object.

8. \_\_\_\_\_ is the amount of energy we transfer to the object and make it move.
9. \_\_\_\_\_ work is done when a larger force is applied, and when the force moves the object by a \_\_\_\_\_ distance.
10. When no force applies, \_\_\_\_\_ work is done.

unbalanced	work done	direction	greater
force diagram	transfer	no	size
more	opposing	balanced	unbalanced

**Choose the correct words to complete the sentences.**



1. The couch is moving because unequal \_\_\_\_\_ are acting on it.
2. \_\_\_\_\_ pulls the boy and the couch downward.
3. The couch is \_\_\_\_\_ because the boy is pushing it.