

Name: _____ Date: _____

Force and Pressure

Q1. What is meant by a contact force? Give an example.

Ans. _____

Q2. Explain, why magnetic force is said to be a non-contact force.

Ans. _____

Q3. Why do the shape and size of balloon change when filled with air or water?

Ans. _____

Q4. Why water comes out more slowly from an upstairs tap than from a similar tap downstairs?

Ans. _____

Q5. Why are we not crushed by atmospheric pressure?

Ans. _____

Q6. What is frictional force?

Ans. _____

Force and Pressure

Q1. What is meant by a contact force? Give an example.

Ans. Force that can be applied only when it is in contact with an object, it is also called a contact force. Example: lifting a bucket of water.

Q2. Explain, why magnetic force is said to be a non-contact force.

Ans. The high pressure produced by the gas or water molecules on the walls of balloon causes it to expand and get inflated.

Q3. Why do the shape and size of balloon change when filled with air or water?

Ans. The high pressure produced by the gas or water molecules on the walls of balloon causes it to expand and get inflated.

Q4. Why water comes out more slowly from an upstairs tap than from a similar tap downstairs?

Ans. This is so because water pressure is less in the upstairs tap due to lesser depth.

Q5. Why are we not crushed by atmospheric pressure?

Ans. We do not get crushed because the atmospheric pressure acting on our body from outside is balanced by the blood pressure acting from inside.

Q6. What is frictional force?

Ans. The force that always acts on all the moving object and its direction is always opposite to the direction of motion is called frictional force (or friction).