

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Force and Pressure

Q1. Why do balloons expand when filled with air?

Ans. \_\_\_\_\_  
\_\_\_\_\_

Q2. Explain why, a wide steel belt is provided over the wheels of an army tank.

Ans. \_\_\_\_\_  
\_\_\_\_\_

Q3. What is pressure?

Ans. \_\_\_\_\_  
\_\_\_\_\_

Q4. Which force makes a rolling ball stop on its own?

Ans. \_\_\_\_\_  
\_\_\_\_\_

Q5. What is muscular force? Give one example.

Ans. \_\_\_\_\_  
\_\_\_\_\_

Q6. What is described as a change in its state of motion?

Ans. \_\_\_\_\_  
\_\_\_\_\_

## Force and Pressure

Q1. Why do balloons expand when filled with air?

Ans. Air exerts pressure on the inner walls of balloon causes it to expand and get inflated.

Q2. Explain why, a wide steel belt is provided over the wheels of an army tank.

Ans. The wide belts increase the area and reduce the pressure. This avoids sinking of the tank into the ground.

Q3. What is pressure?

Ans. The force acting on a unit area of a surface is called pressure.

Pressure = force / area on which it acts

Q4. Which force makes a rolling ball stop on its own?

Ans. It is the force of friction between the surface of the ball and the ground that brings the moving ball to rest.

Q5. What is muscular force? Give one example.

Ans. The force resulting due to the action of muscles is known as the muscular force. Example: lifting a bucket of water.

Q6. What is described as a change in its state of motion?

Ans. A change in either the speed of an object, or its direction of motion, or both, is described as a change in its state of motion.